

Electrical documentation

Xcalibur 3

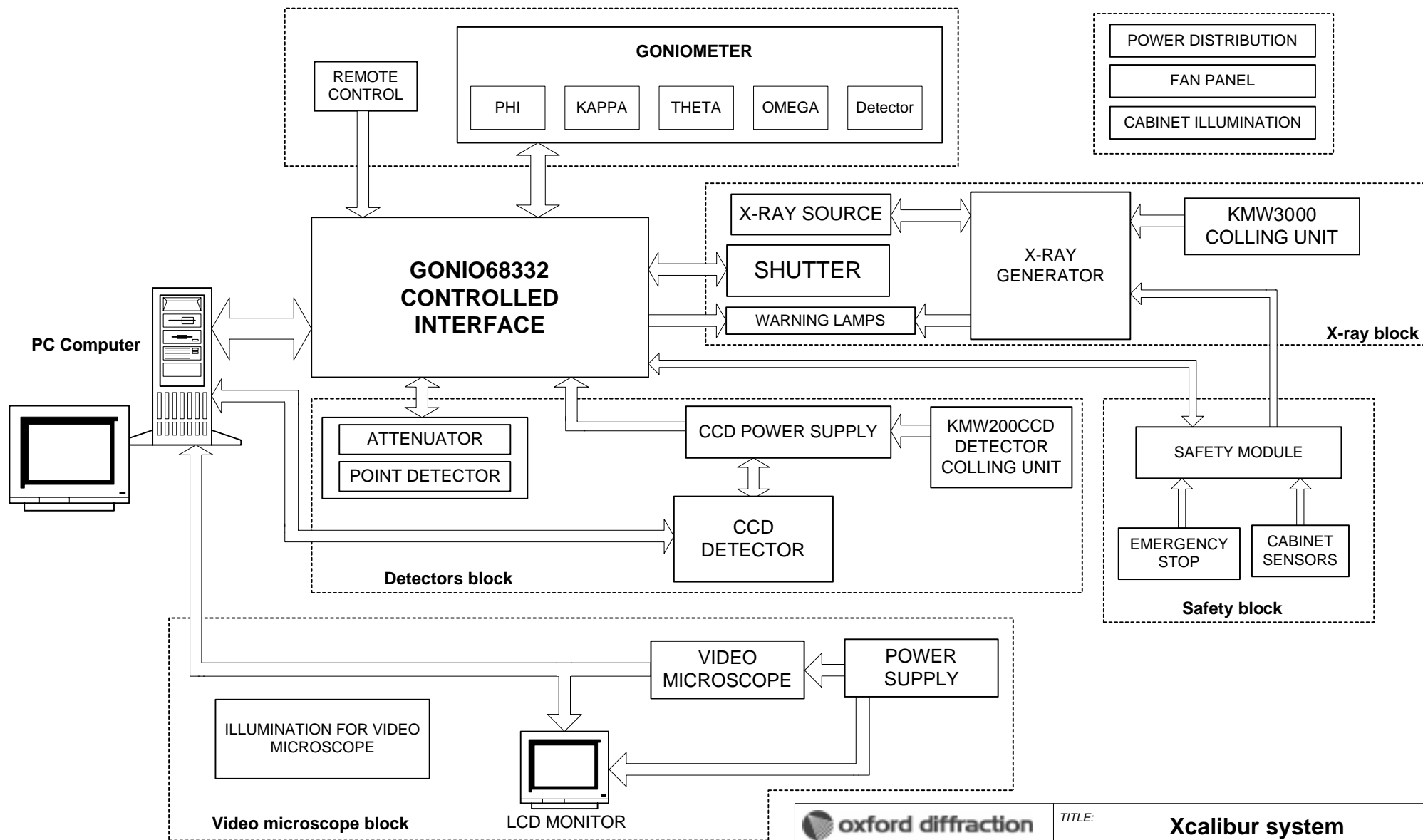
Single Crystal Diffractometer




version 2.05

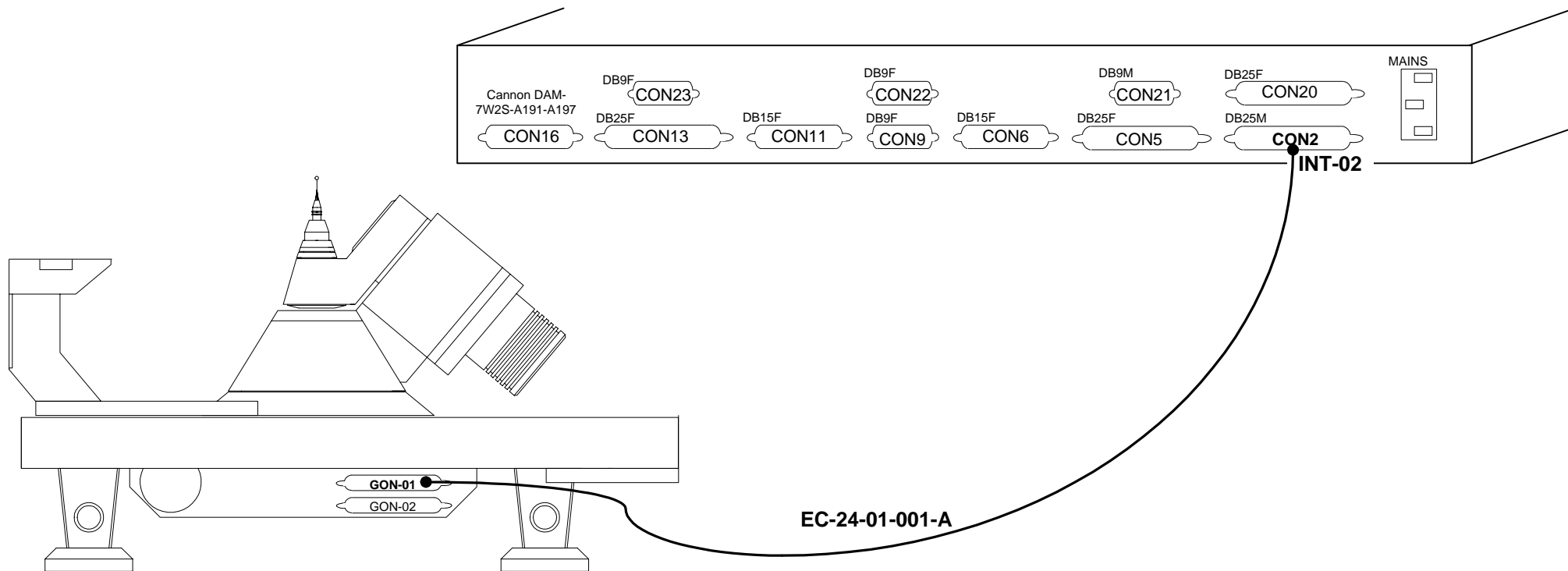
05.2004 Wrocław






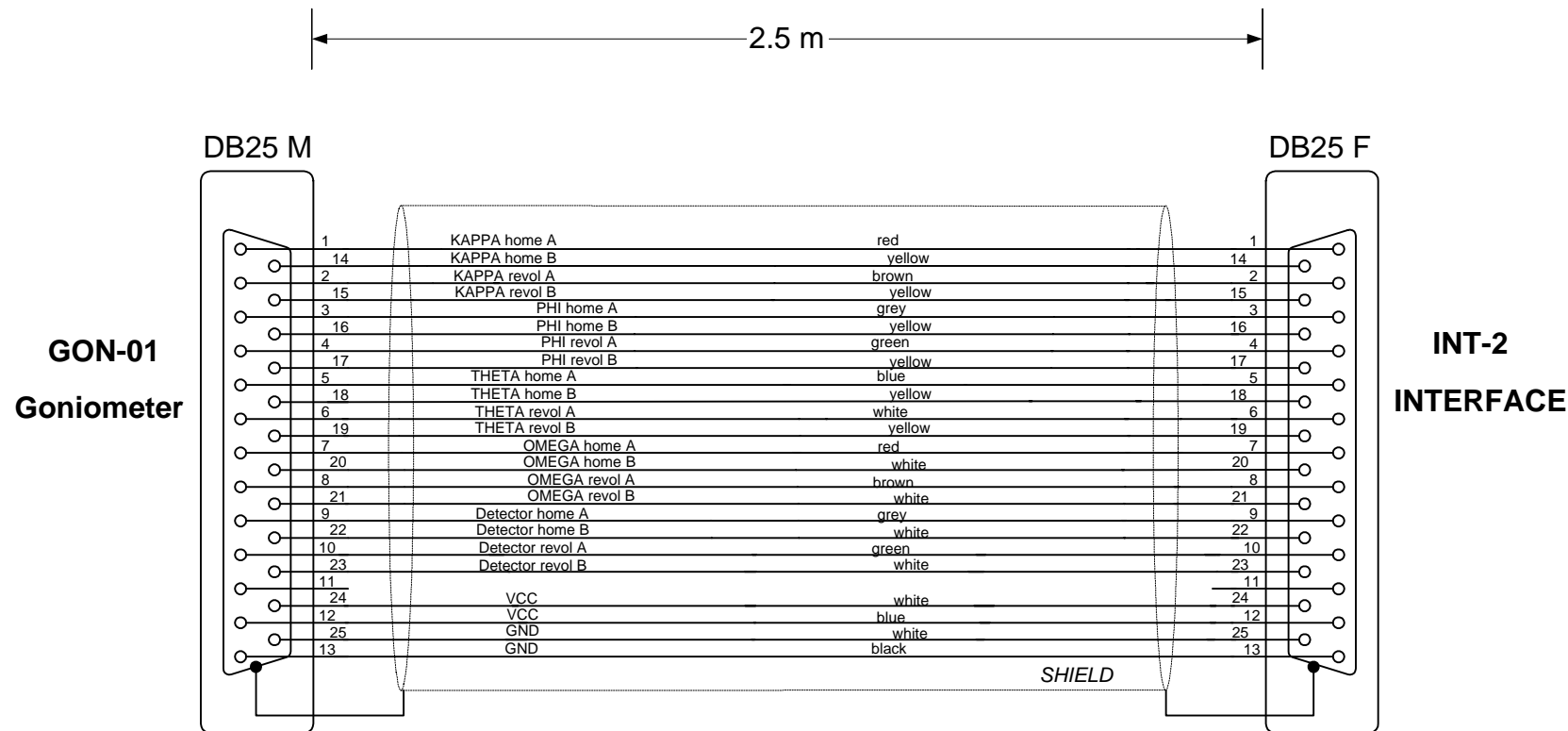
	TITLE: Xcalibur system		
	Block diagram		
	DRG NO. EC-00-00-000-B	FILE: \\workgroups\electronics\Xcalibur\Electrical Documentation v200\	REV. C
	DRAWN BY: R. S.	DATE: Nov. 2002	SHEET 1 of 1
APPROVED BY:			


A. No.	B	C		
Appr				
Date	06/2003	05/2004		

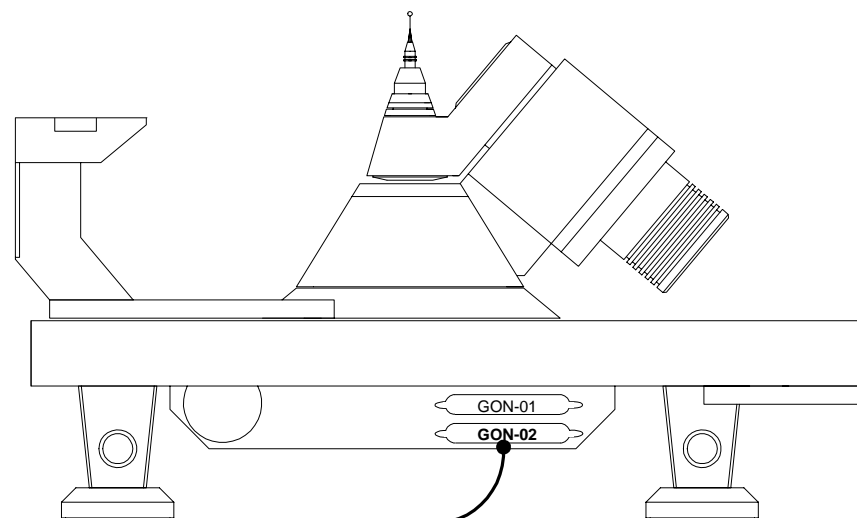


PNS code: EC-24-01-001-A		Length: 2.5m	Drg no.: EC-24-01-001-A
Description: Encoders communication			
Cable: 2 x 12 x 0.25 shielded	Connector 1: INT-02		Connector 2: GON-01
	PNS code: EA-06-00-006-A		PNS code: EA-06-00-005-A
PNS code: EA-05-00-014-A	Type: DB25 female		Type: DB25 male
Type: LiYCY2x12x0.25 shielded	Location: Interface – rear panel		Location: Goniometer

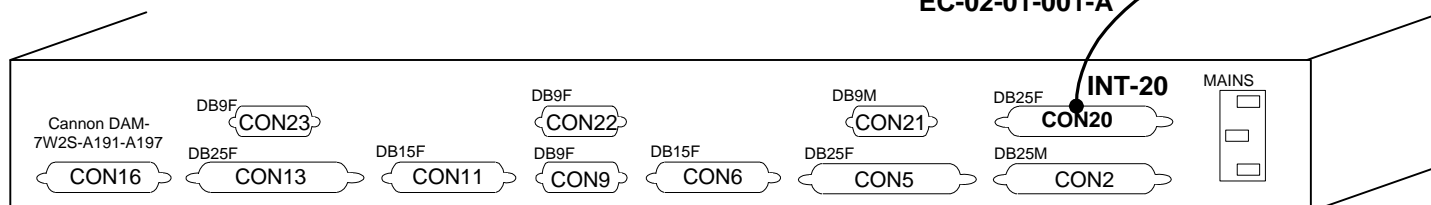
					<div> oxford diffraction</div>	<div>TITLE:</div> <div>Xcalibur system</div> <div>Encoders cable</div>		
					<div>DRG NO.</div> <div>EC-24-01-001-A</div>			
<div>A. No.</div>	<div>B</div>	<div>C</div>			<div>DRAWN BY:</div> <div>R. S.</div>	<div>FILE:</div> <div>\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div>		<div>REV.</div> <div>C</div>
<div>Appr</div>					<div>APPROVED BY:</div>	<div>DATE:</div> <div>06/07/2001</div>	<div>SHEET</div> <div>1 of 2</div>	
<div>Date</div>	<div>Dec. 2002</div>	<div>05/2004</div>						




					 DRG NO. EC-24-01-001-A	TITLE: Xcalibur system Encoders cable	
A. No.	C	D				FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. D
Appr					DRAWN BY: R. S.		
Date	Dec. 2002	05/2004			APPROVED BY:	DATE: 04/07/2001	SHEET 2 of 2



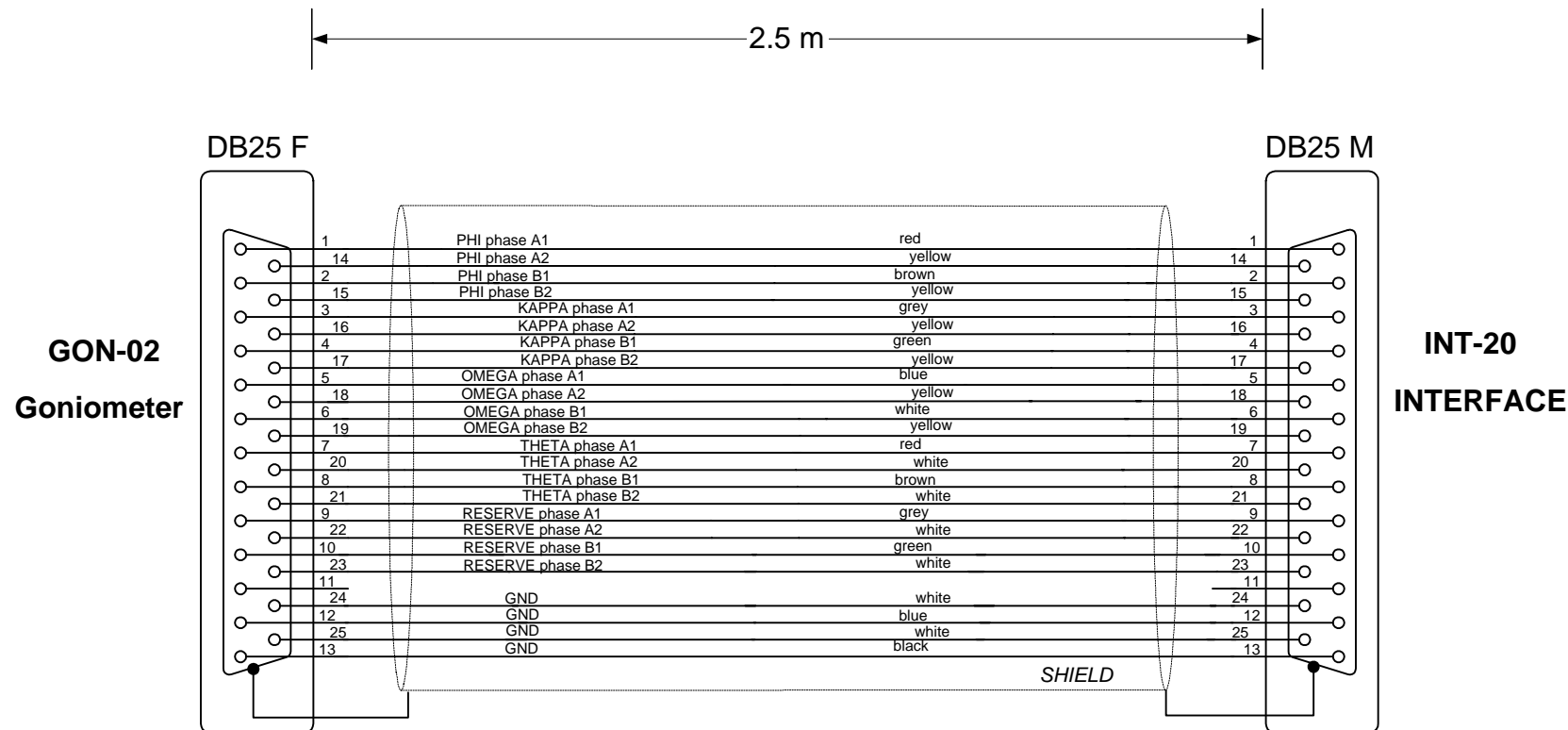
EC-02-01-001-A




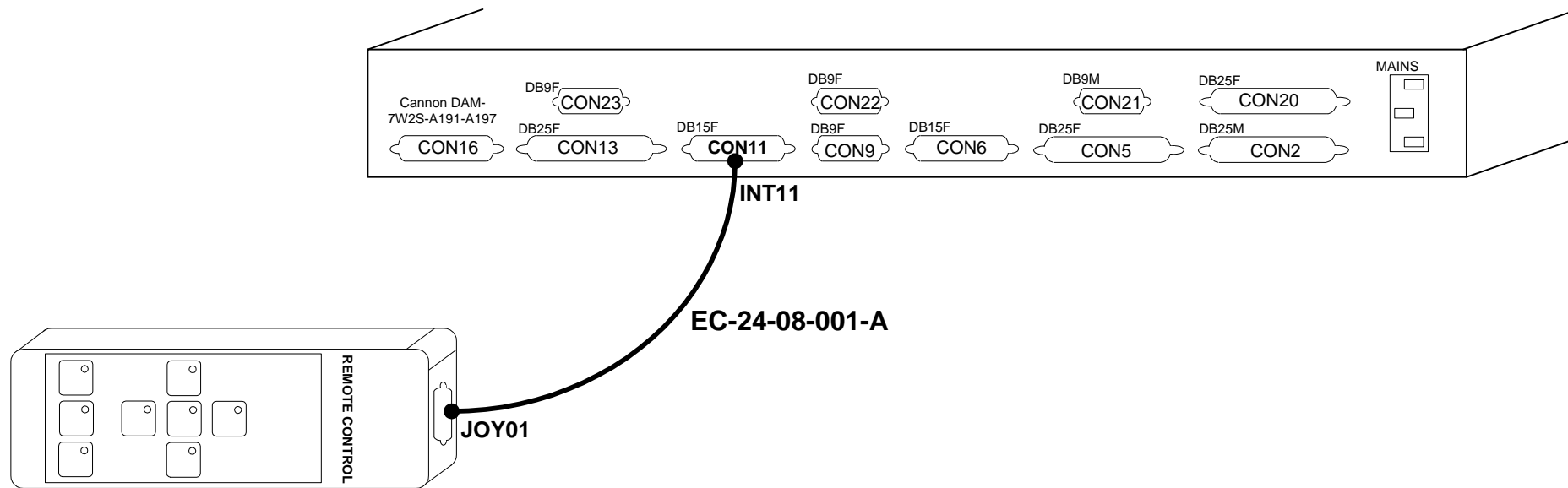
PNS code: EC-02-01-001-A		Length: 2.5m	Drg no.: EC-02-01-001-A
Description: Stepping motor supply			
Cable: 2 x 12 x 0.25 mm2 shielded		Connector 1: INT-20	Connector 2: GON-02
		PNS code: EA-06-00-005-A	PNS code: EA-06-00-006-A
PNS code: EA-05-00-014-A		Type: DB25 male	Type: DB25 female
Type: LiYCY2x12x0.25 shielded		Location: Interface – rear panel	Location: Goniometer

 oxford diffraction		TITLE: Xcalibur system	
DRG NO. EC-02-01-001-A		Stepping motors cable	
DRAWN BY: R. S.		FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. C
APPROVED BY:		DATE: 06/07/2001	SHEET 1 of 2


A. No.	B	C		
Appr				
Date	12/2002	05/2004		

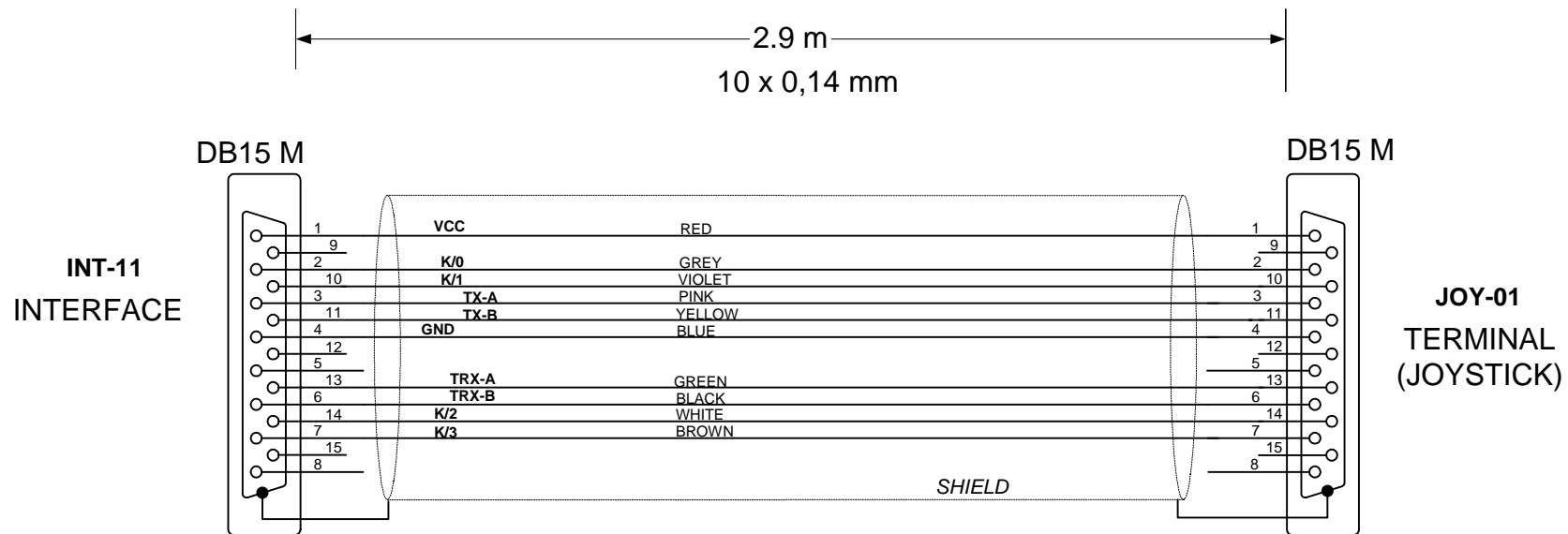



					 DRG NO. EC-02-01-001-A	TITLE: Xcalibur system Stepping motors cable		
A. No.	C	D				FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. D	
Appr					DRAWN BY: R. S.			
Date	12/2002	05/2004			APPROVED BY:	DATE: 04/07/2001	SHEET 2 of 2	



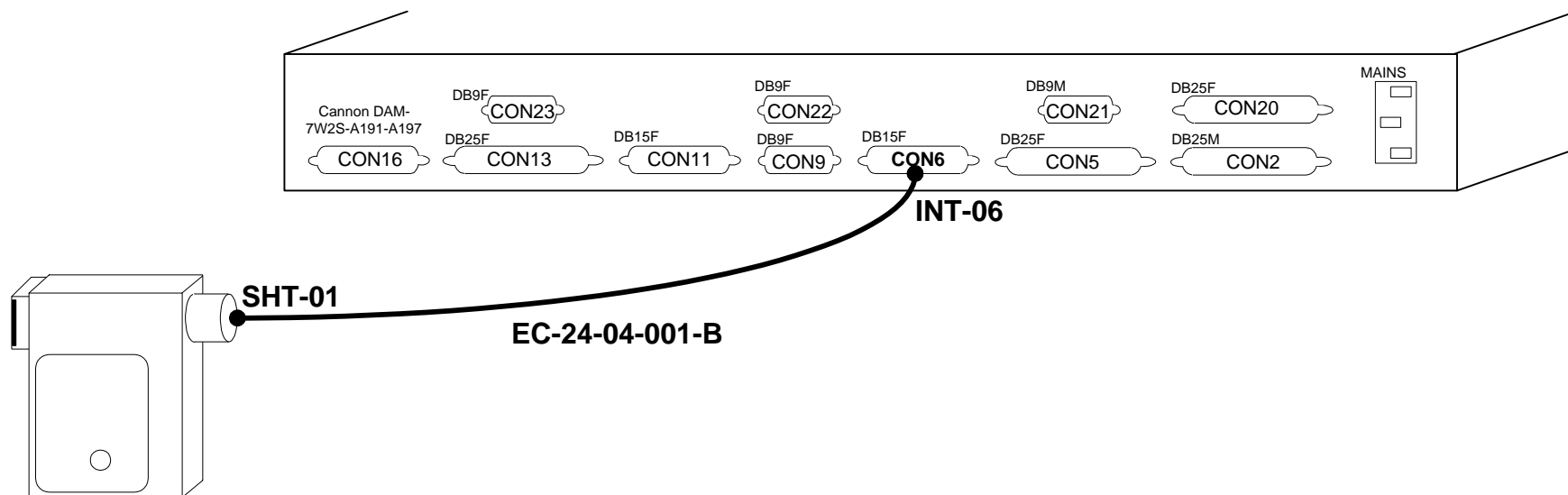
PNS code: EC-24-08-001-A		Length: 2.9m	Drg no.: EC-24-08-001-A
Description:			
Cable: 10 x 0.14 mm2 shielded	Connector 1: INT-11		Connector 2: JOY-01
	PNS code: EA-06-00-003-A		PNS code: EA-06-00-003-A
PNS code: EA-05-00-004-A	Type: DB15 male		Type: DB15 male
Type: LiYCY10x0.14 shielded	Location: Interface – rear panel		Location: Terminal

					 DRG NO. EC-24-08-001-A	TITLE: Xcalibur system Remote control cable	
A. No.	B						
Appr					DRAWN BY: R. S.	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\ REV. B	DATE: 09/07/2001 SHEET 1 of 2
Date	05/2004				APPROVED BY:		




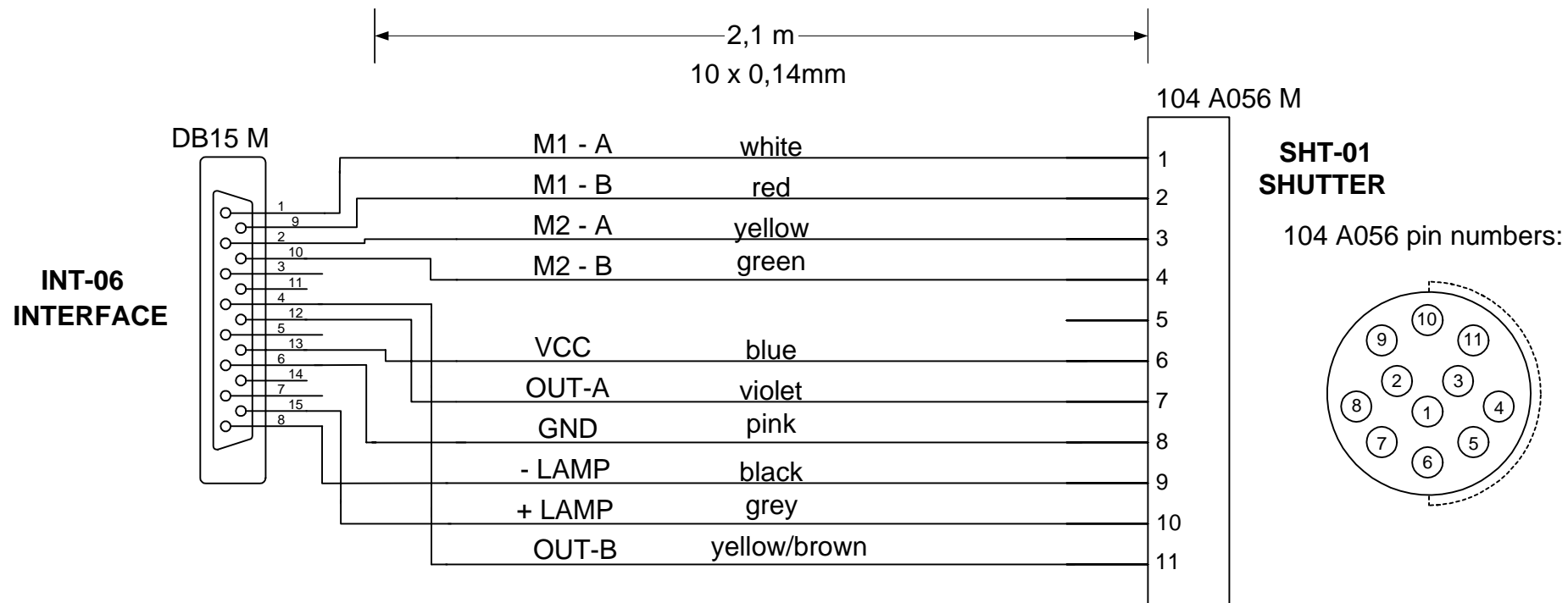
	TITLE: Xcalibur system	
	Remote control cable	
DRG NO. EC-24-08-001-A	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV: B
DRAWN BY: R. S.	DATE: 09/07/2001	SHEET 2 of 2
APPROVED BY:		


A. No.	B			
Appr				
Date	05/2004			



<i>PNS code:</i> EC-24-04-001-B		<i>Length:</i> 2,1m	<i>Drg no.:</i> EC-24-04-001-A
<i>Description:</i> Shutter connections			
<i>Cable:</i> 10 x 0.14 mm2 shielded	<i>Connector 1:</i> INT-06		<i>Connector 2:</i> SHT-01
	<i>PNS code:</i> EA-06-00-003-A		<i>PNS code:</i> EA-06-00-028-A
<i>PNS code:</i> EA-05-00-004-A	<i>Type:</i> DB15 male		<i>Type:</i> 104A056 Fischer
<i>Type:</i> LiYCY10x0.14 shielded	<i>Location:</i> Interface – rear panel		<i>Location:</i> Shutter

					 TITLE: Xcalibur system Fast shutter cable		
A. No.	B						
Appr					DRG NO.		
Date	05/2004				EC-24-04-001-B		
					DRAWN BY: R. S.		
					APPROVED BY:	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. B
						DATE: 16/01/2002	SHEET 1 of 2



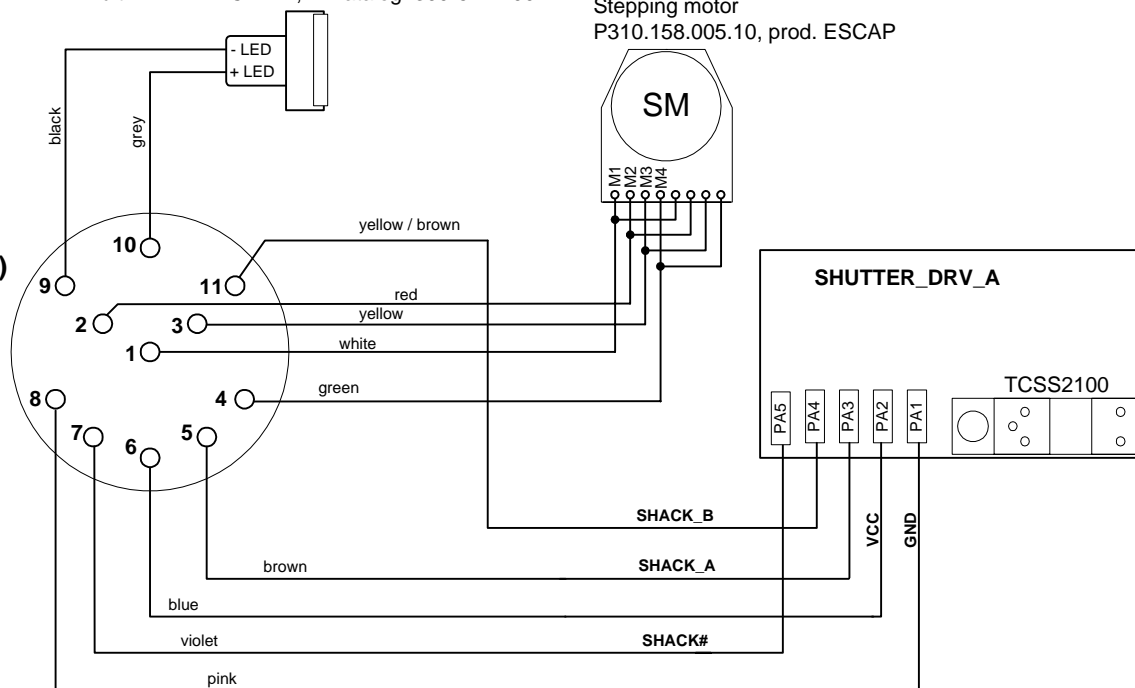
					 DRG NO. EC-24-04-001-B	TITLE: Xcalibur system Fast shutter cable	
A. No.	B	C				FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. C
Appr					DRAWN BY: R. S.		
Date	7/02/2002	05/2004			APPROVED BY:	DATE: 16/01/2002	SHEET 2 of 2

Pilot lamp 990-000-K0, prod. Swisstac
 Bezel 18x24mm, nr katalog. 200-6000-00
 Lens RED 18x24mm, nr katalog. 200-5120-00
 MultiLED 12VDC RED, nr katalog. 390-6212-00


Stepping motor
 P310.158.005.10, prod. ESCAP

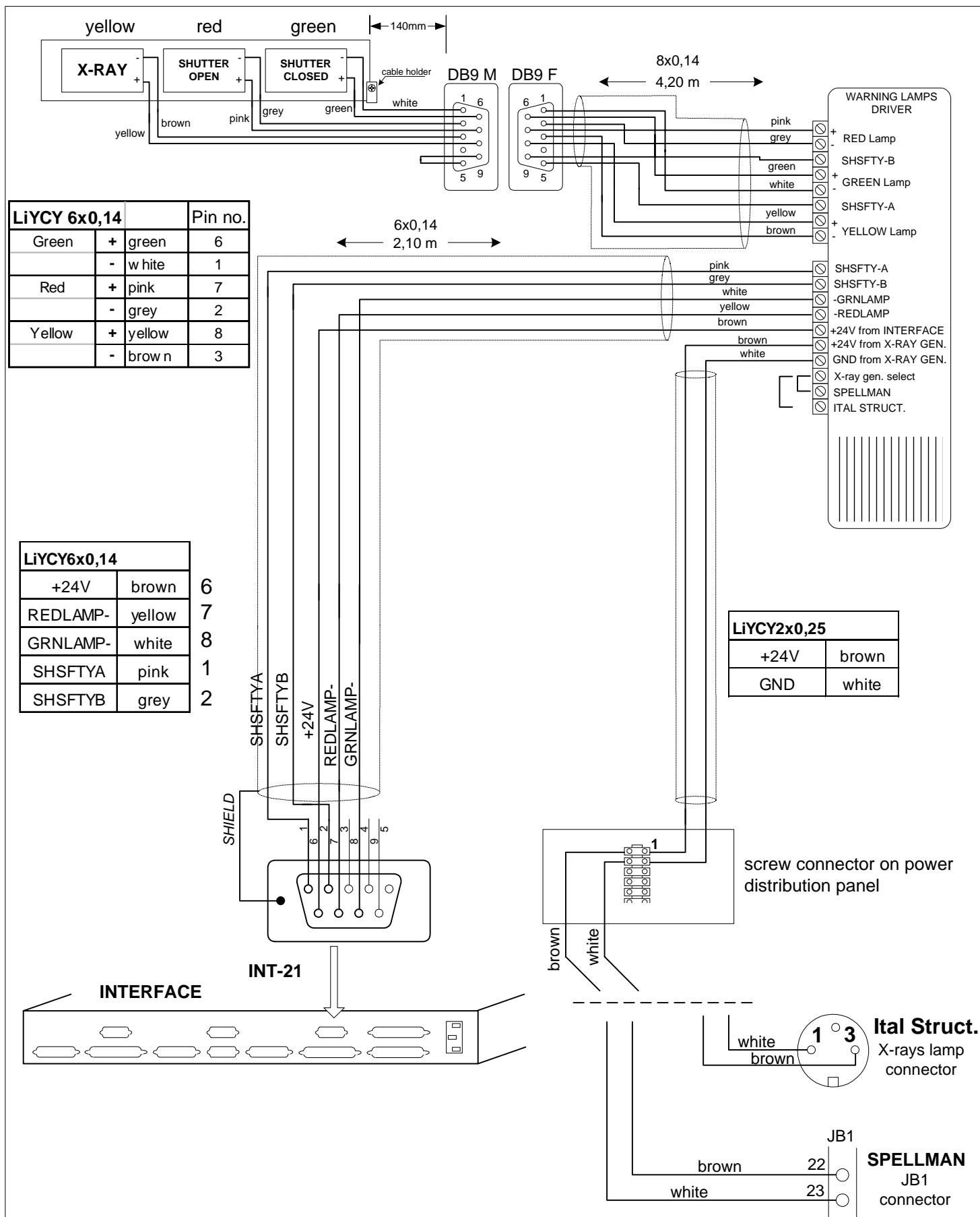
FISCHER
104 A056
 (female socket)

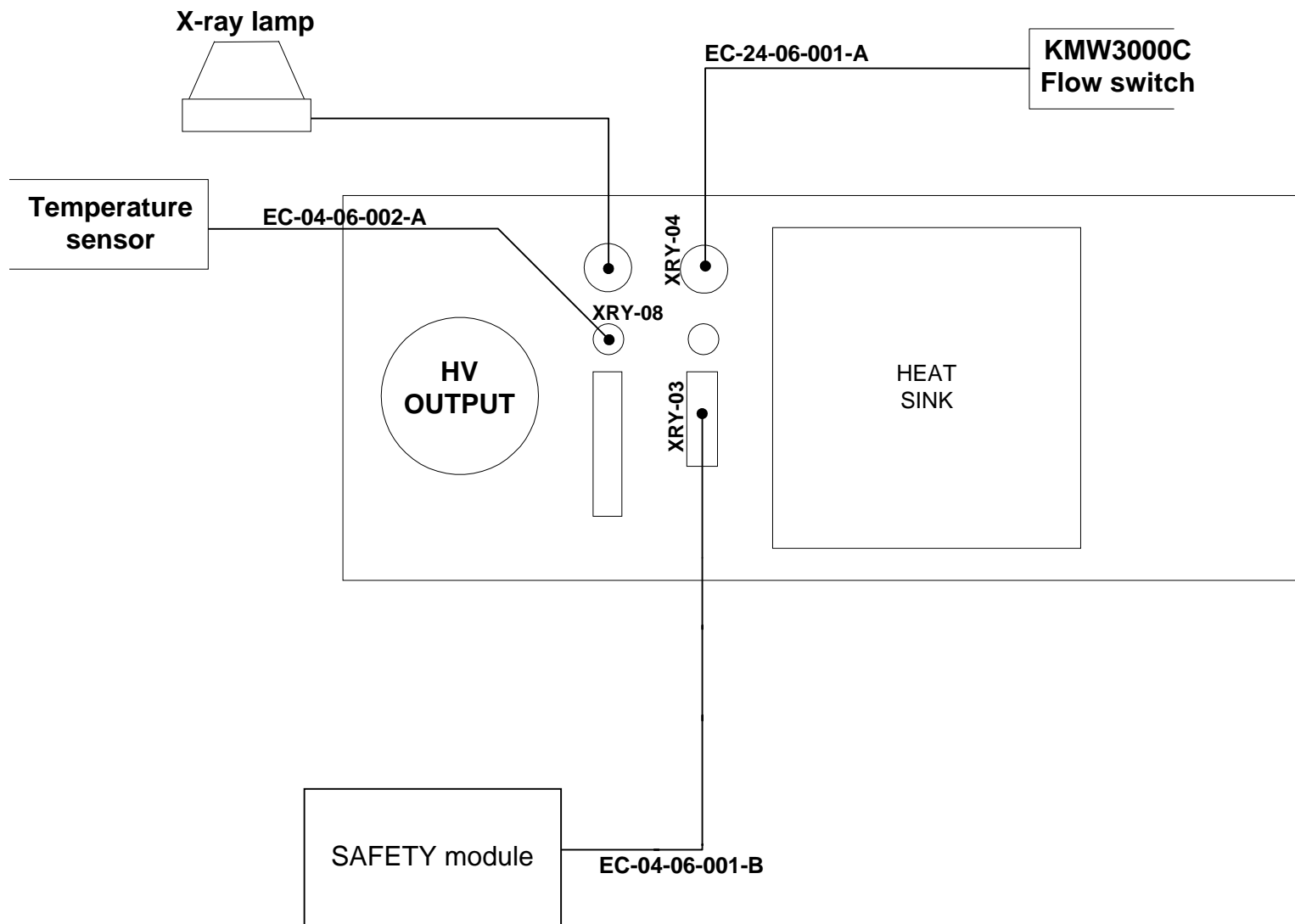
104A056 Pin no.	Description	Cable color
1	M1 stepping motor	White
2	M2 stepping motor	Red
3	M3 stepping motor	Yellow
4	M4 stepping motor	Green
5	SHACK_A	Brown
6	VCC (+5V)	Blue
7	SHACK# (TTL_OUT)	Violet
8	GND	Pink
9	LED -	Black
10	LED +	Grey
11	SHACK_B	Yellow/Brown




A. No.	A	B	C	
Appr				
Date	16/01/2002	5/03/2002	6/05/2002	

 oxford diffraction DRG NO. OD-1-06-30	TITLE: ENHANCE Shutter connections	
	FILE: \\electronics\xcallibur\gonio68332\	REV. C
	APPROVED BY:	DATE: 09.01.2002 SHEET 1 of 1

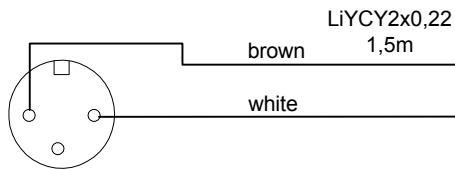




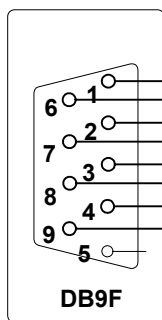
 oxford diffraction	TITLE: C3K5 x-ray generator		
DRG NO. OD-1-06-25	Rear panel		
DRAWN BY: R. S.	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
APPROVED BY:	DATE: July 26, 1999	SHEET	1 of 1

A. No.				
Appr				
Date				

Ital Struct.
X-rays lamp
connector

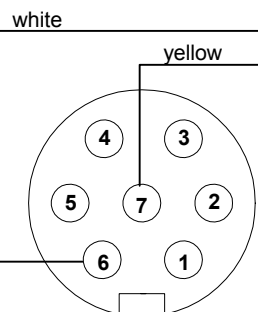


P3



LiYCY4x0.14
1,5m

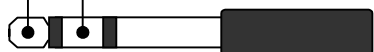
LiYCY4x0.14
1,5m



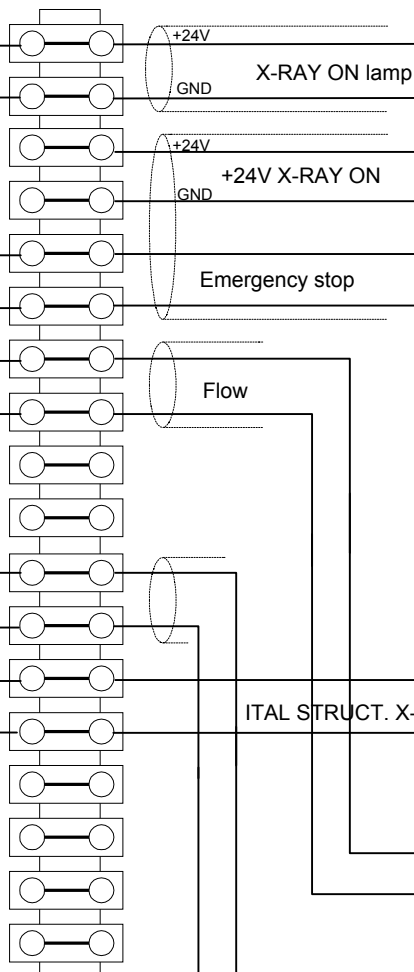
P4 connector

LiYCY2x0,22
1,5m

JACK connector



Screw connector
(electrical rack - left side)



Warning lamps driver
(see warning lamps wiring diagram)

CAB-05

D15F

I/O module

DB15M

Emergency stop
n.c.

KMW3000C flow sensor
(see KMW3000C wiring diagram)

X-RAY tube temperature sensor



DRG NO.

EC-24-06-001-D

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:

**ITAL STRUCTURES
x-ray generator
Safety connections**

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

REV. **A**

DATE: **04.2003**

SHEET **1 of 1**

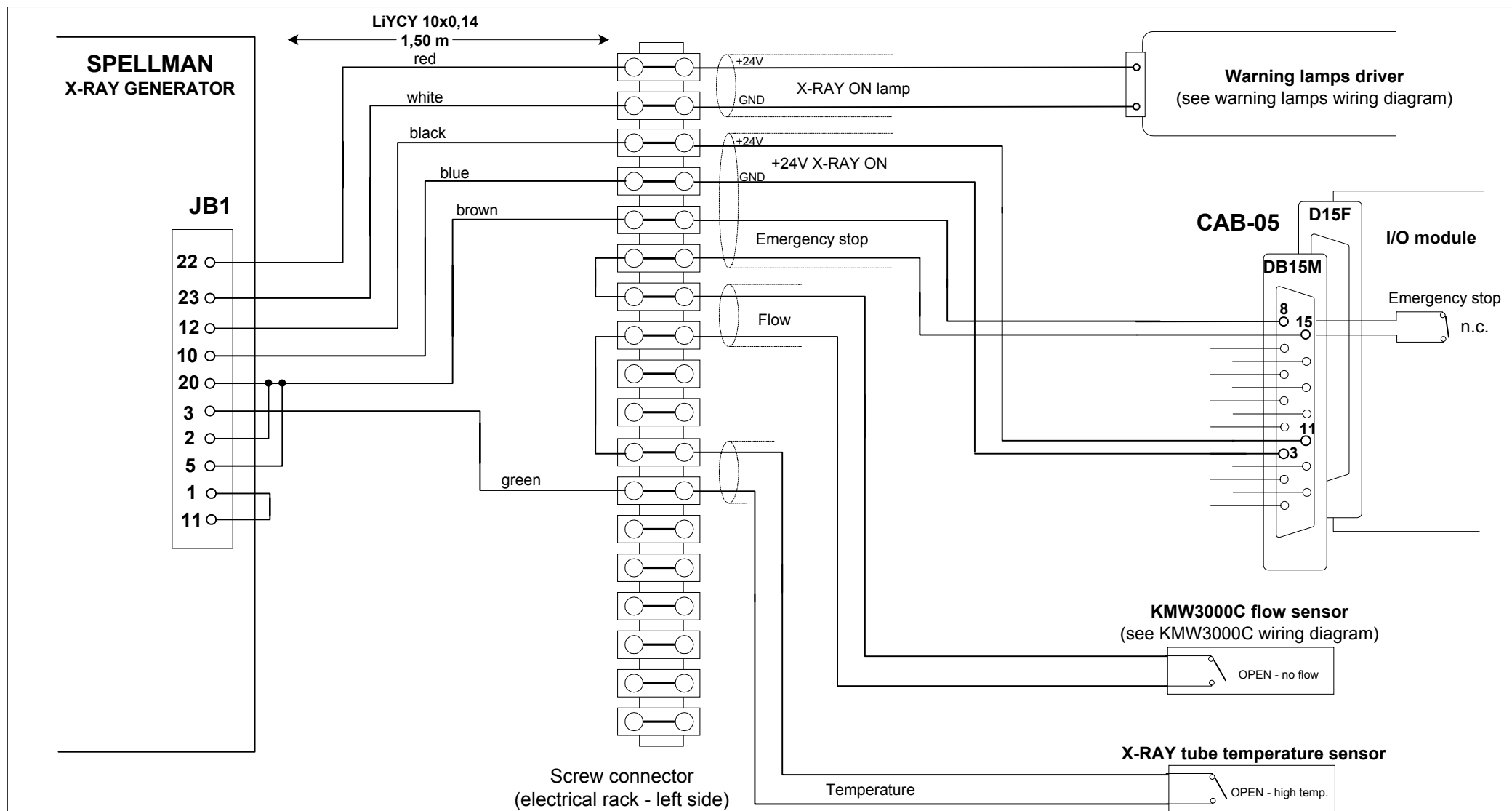
A. No.


A

Appr

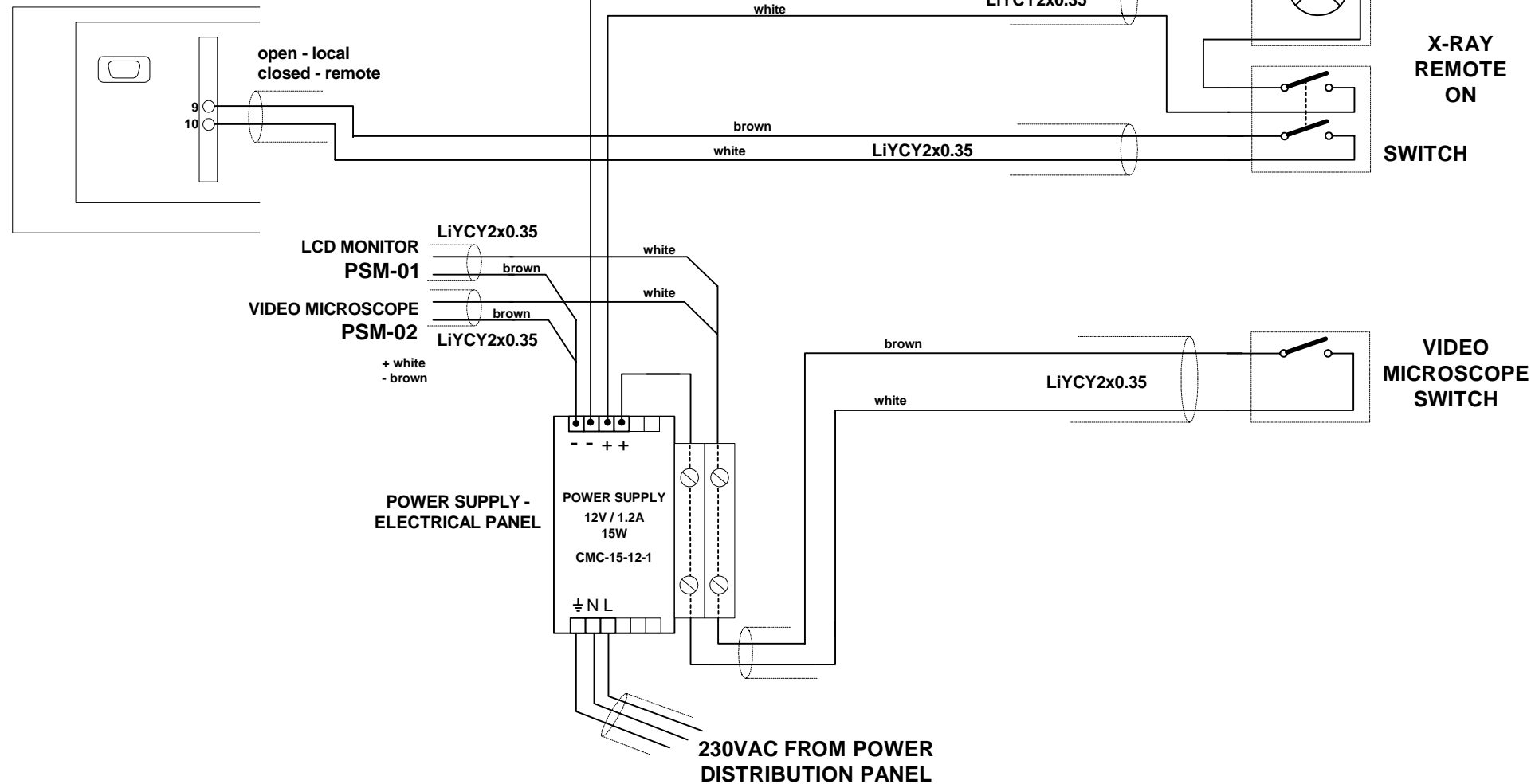
Date

04/2003



					 oxford diffraction	TITLE: SPELLMAN x-ray generator Safety connections					
					DRG NO. EC-24-06-001-C						
					A. No.	A				FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A
					Appr					DRAWN BY: R. S.	
Date	28/03/2003				APPROVED BY:	DATE: 01.2002	SHEET 1 of 1				

SPELLMAN X- RAY GENERATOR



A. No.

Appr

Date



DRG NO. **EC-24-07-001-A**

DRAWN BY: R. S.

APPROVED BY:

TITLE: **Xcalibur PX system
Electrical panel - x-ray remote switch**

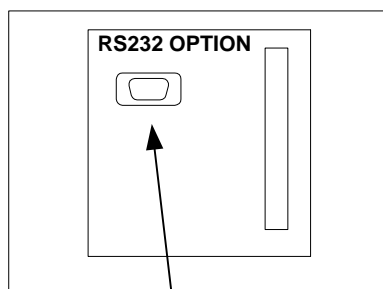
FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

DATE: 08.2003

REV. **A**

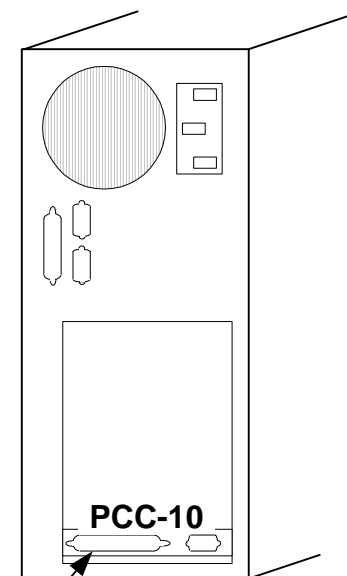
SHEET **1 of 1**

SPELLMAN X-RAY GENERATOR



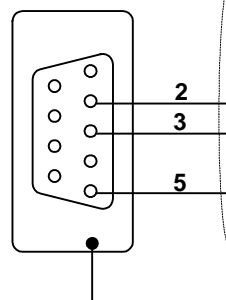
LiYCY 4x0.14
8.20m

DB25 F



**SPE-10
RS232 option**

DB9 M



yellow RxD
green TxD
white GND

shield

green
yellow

2

3

white

7

**PCC-10
PC serial port**

A. No.

Appr

Date



DRG NO. **EC-24-06-001-D**

DRAWN BY: **R. S.**

APPROVED BY:

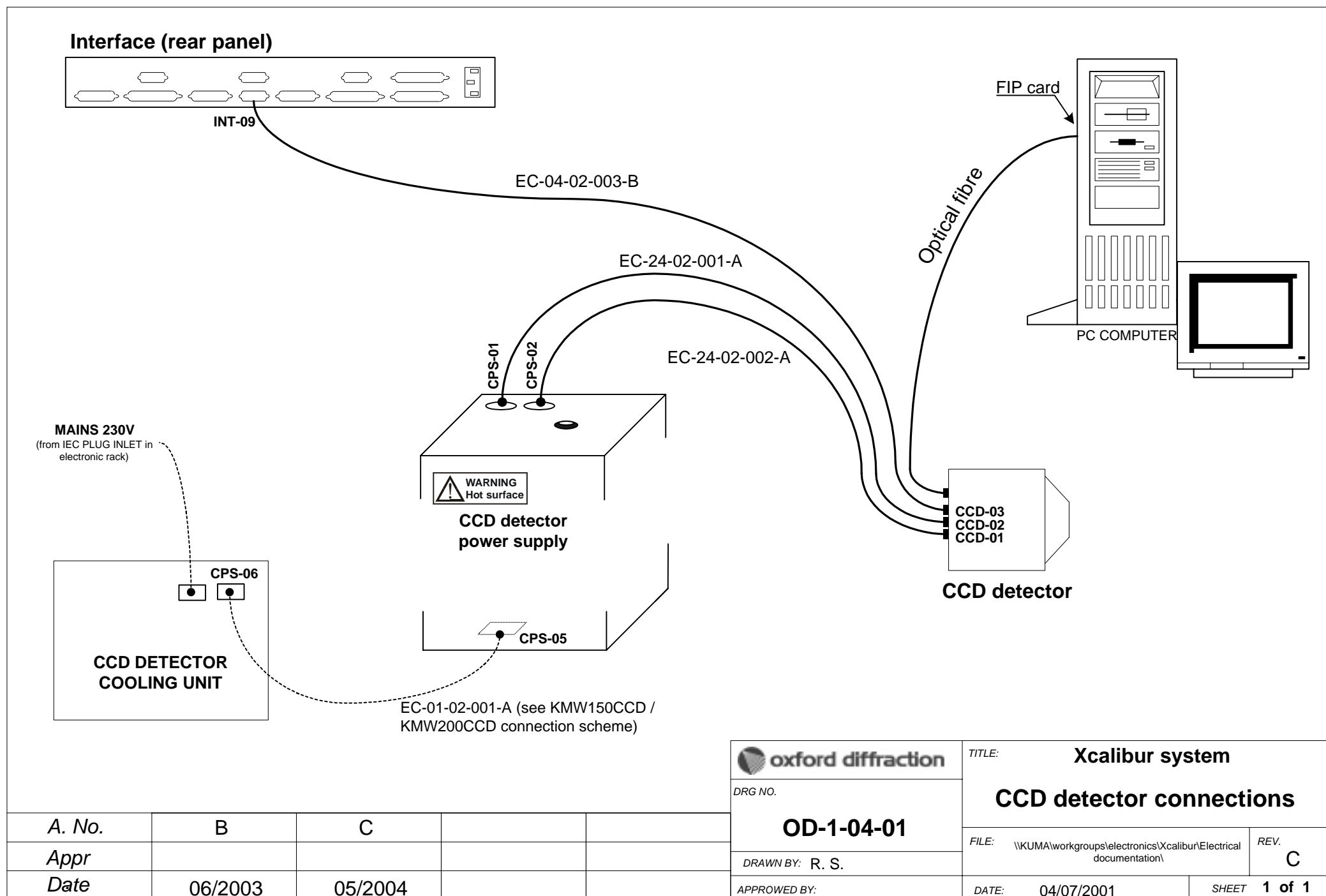
TITLE: **SPELLMAN x-ray generator
RS232 cable**

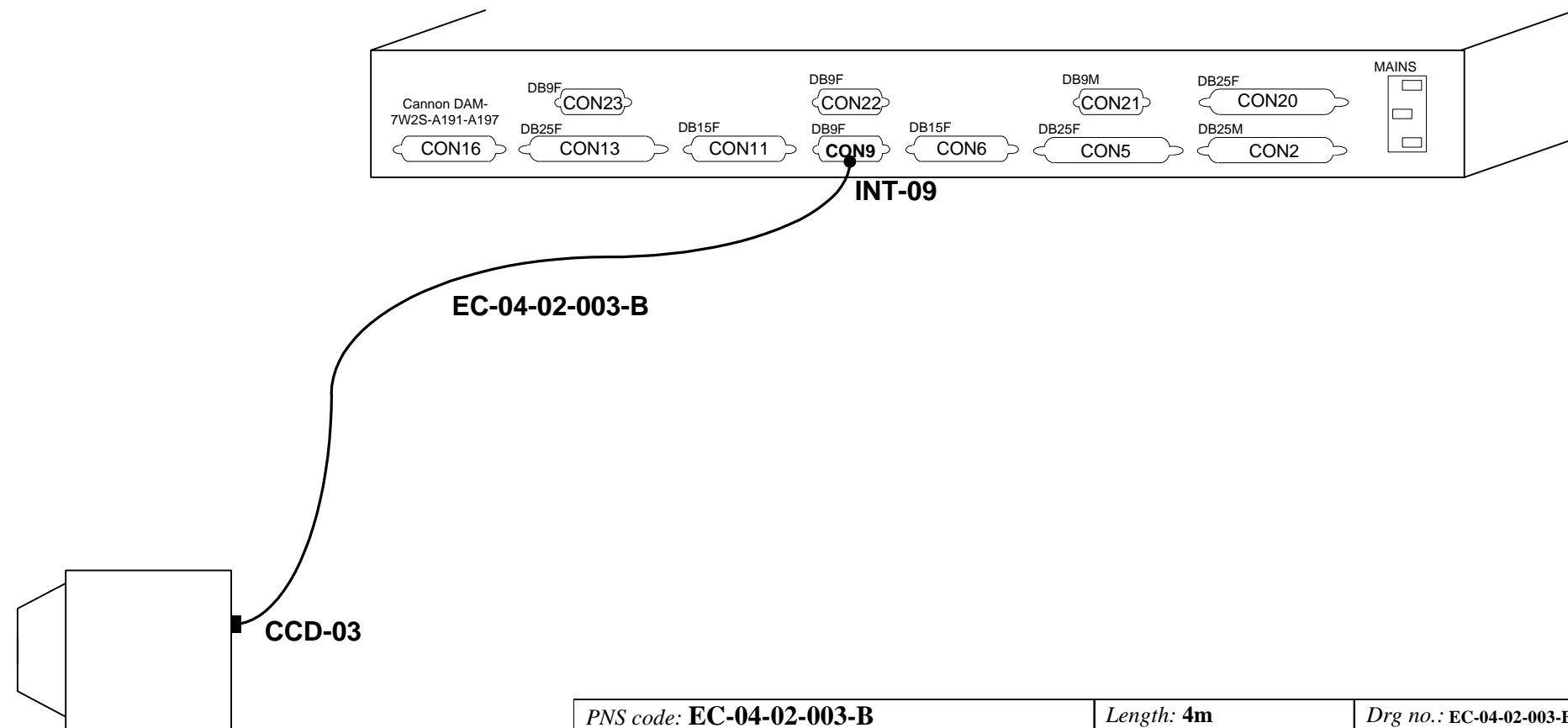
FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

DATE: **10.2003**

REV. **A**


SHEET **1 of 1**

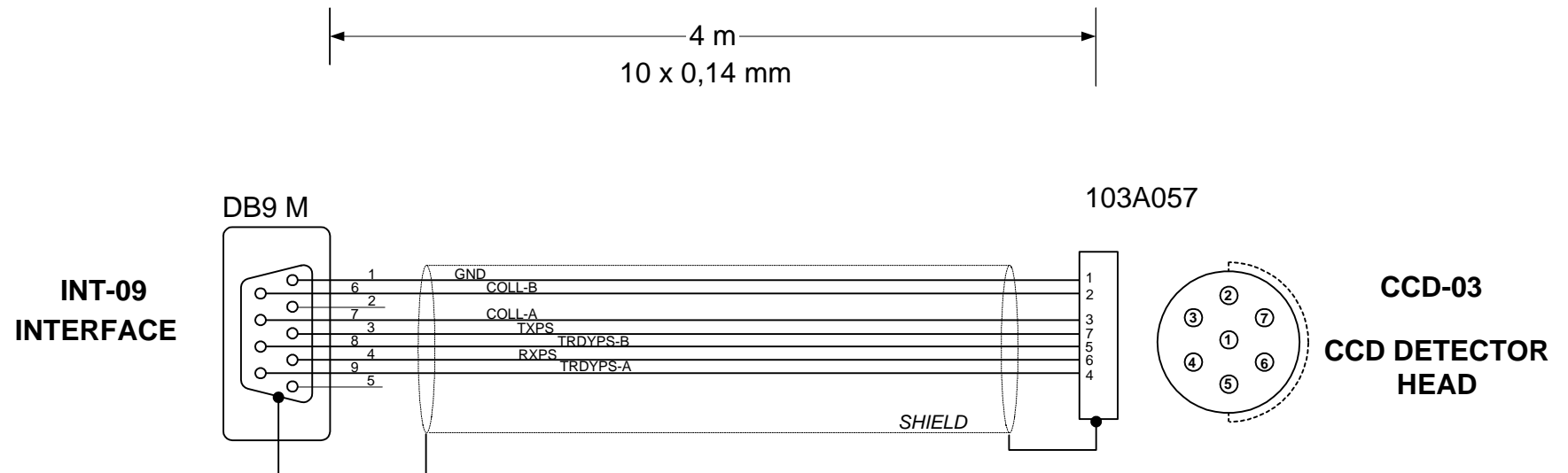





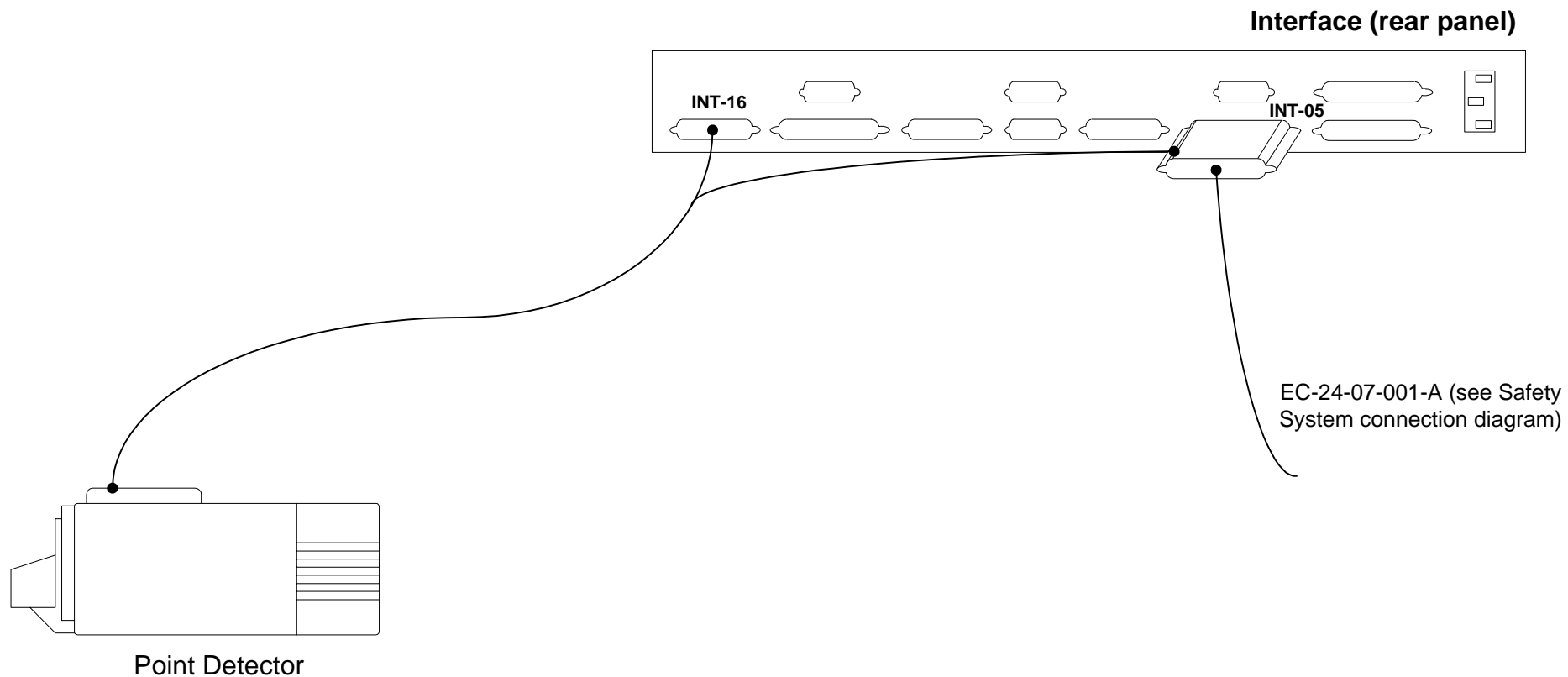
CCD DETECTOR HEAD


PNS code: EC-04-02-003-B		Length: 4m	Drg no.: EC-04-02-003-B
Description: Temperature and collision			
Cable: 10 x 0.14mm2 shielded	Connector 1: INT-09		Connector 2: CCD-03
	PNS code: EA-06-00-001-A		PNS code: EA-06-00-037-A
PNS code: EA-05-00-004-A	Type: DB9 male		Type: 103A057
Type: LiYCY10 x 0.14 shielded	Location: Interface – rear panel		Location: CCD detector head

					<div><div></div><div>oxford diffraction</div></div>	<div>TITLE: CCD detector - temperature and collision</div>		
					DRG NO. EC-04-02-003-B	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
A. No.					DRAWN BY: R. S.			
Appr					APPROVED BY:	DATE: 06/2003	SHEET 1 of 2	
Date								

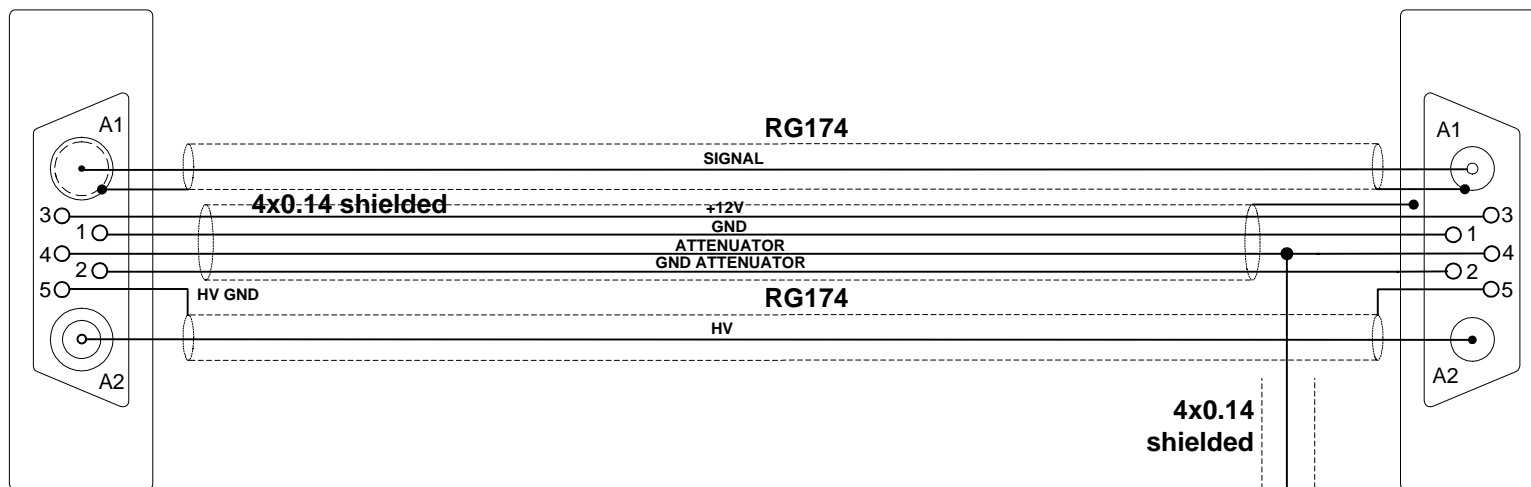


					<div>oxford diffraction</div>	<div>TITLE: CCD detector - temperature and collision</div>		
					DRG NO. EC-04-02-003-B	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
					DRAWN BY: R. S.			
					APPROVED BY:	DATE: 06/2003		SHEET 2 of 2
A. No.								
Appr								
Date								



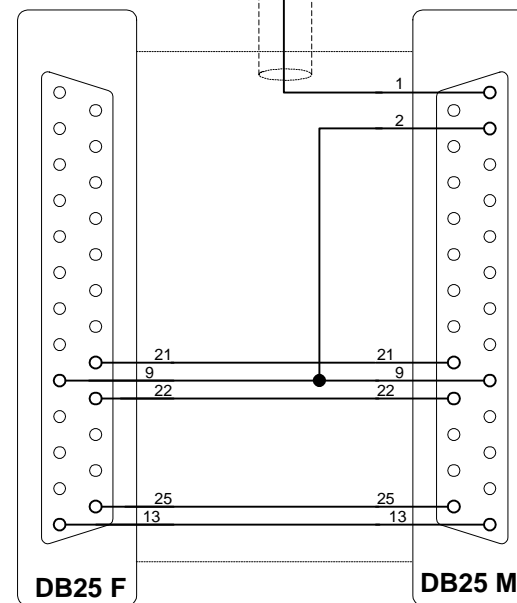
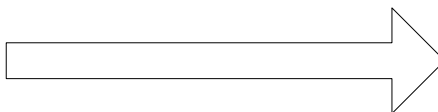
					<div> oxford diffraction</div>	<div>TITLE:</div> <div>Xcalibur 2</div> <div>Point Detector connections</div>		
					<div>DRG NO.</div> <div>EC-24-02-010-A</div>			
A. No.					<div>DRAWN BY:</div> <div>R. S.</div>	<div>FILE:</div> <div>\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div>		<div>REV.</div> <div>A</div>
Appr					<div>APPROVED BY:</div>	<div>DATE:</div> <div>Nov. 2002</div>		<div>SHEET</div> <div>1 of 2</div>
Date								

**PDT-01
POINT
DETECTOR**




**INT-16
INTERFACE**

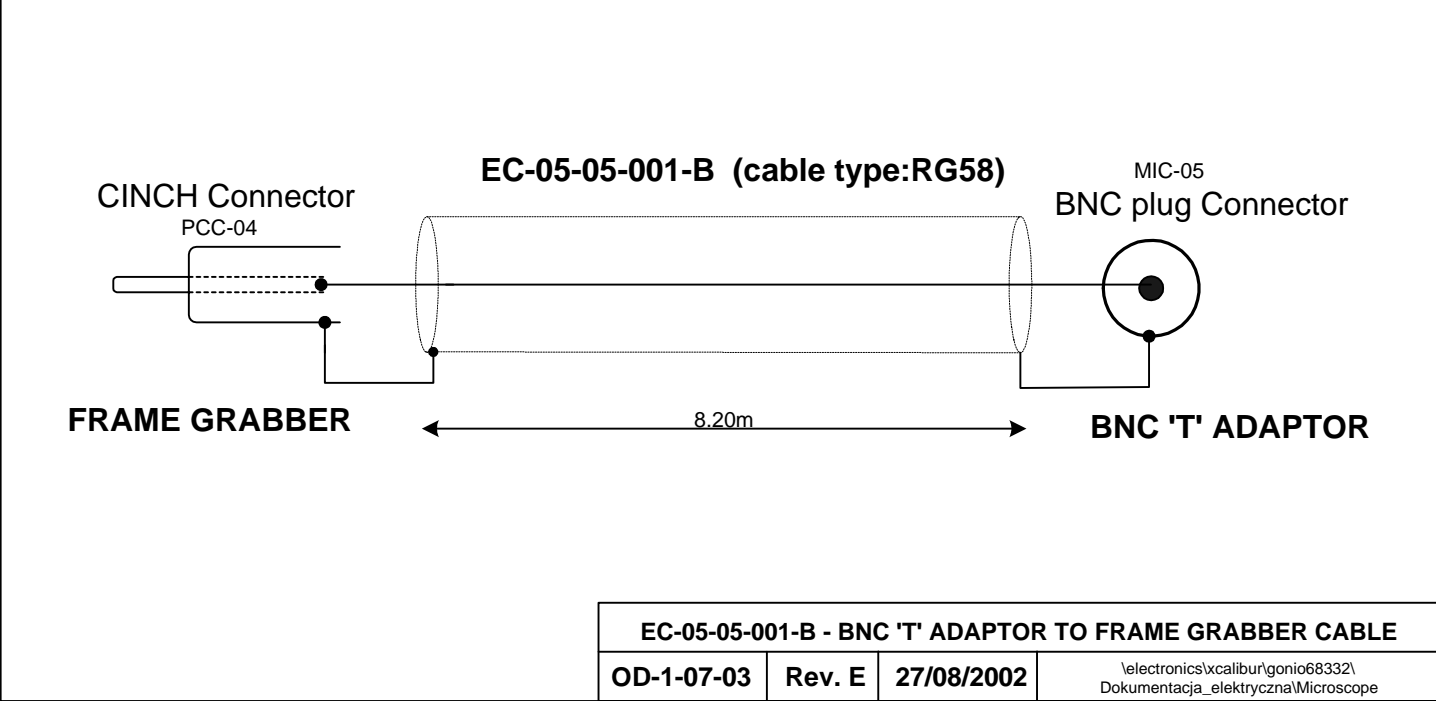
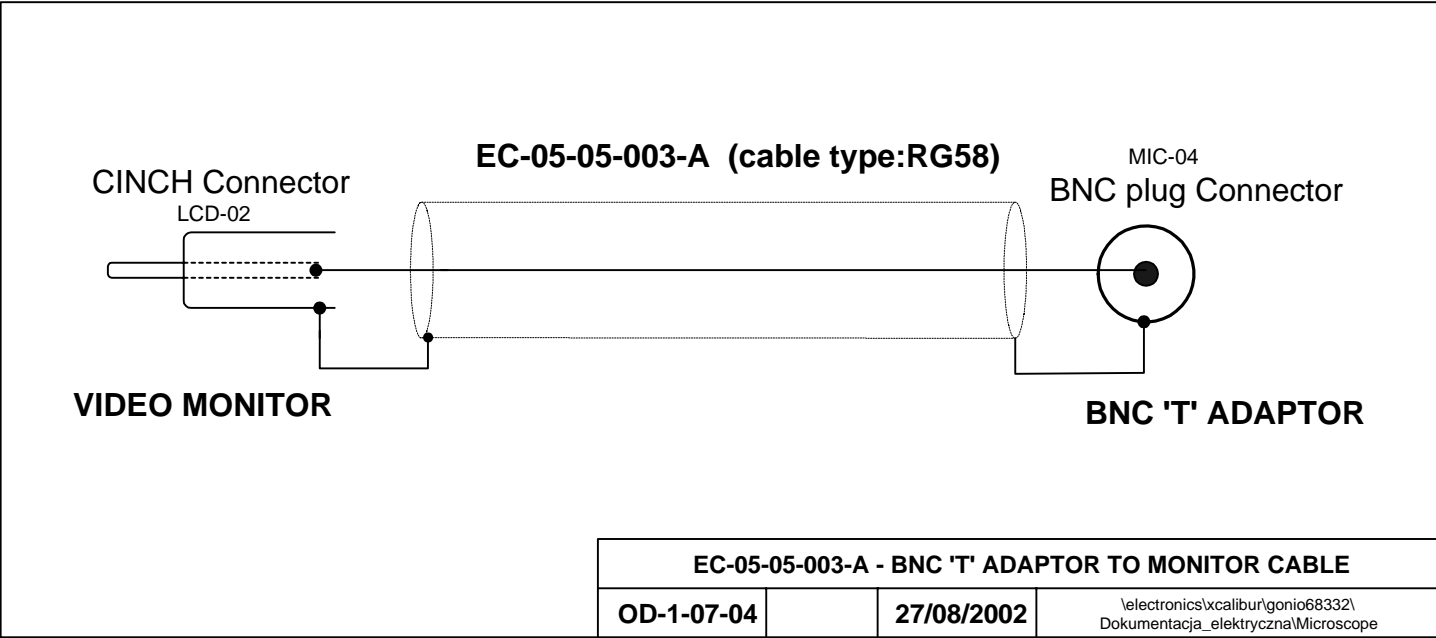
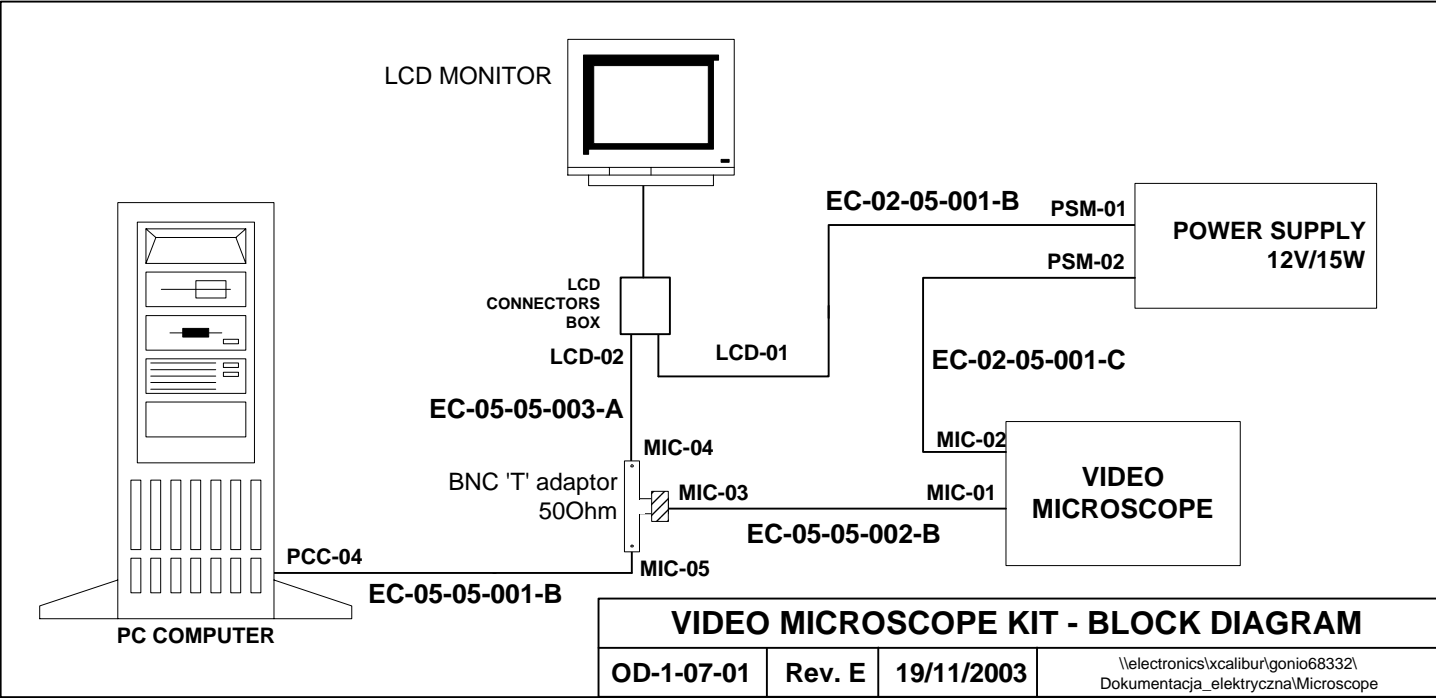
EC-24-07-001-A
from safety module

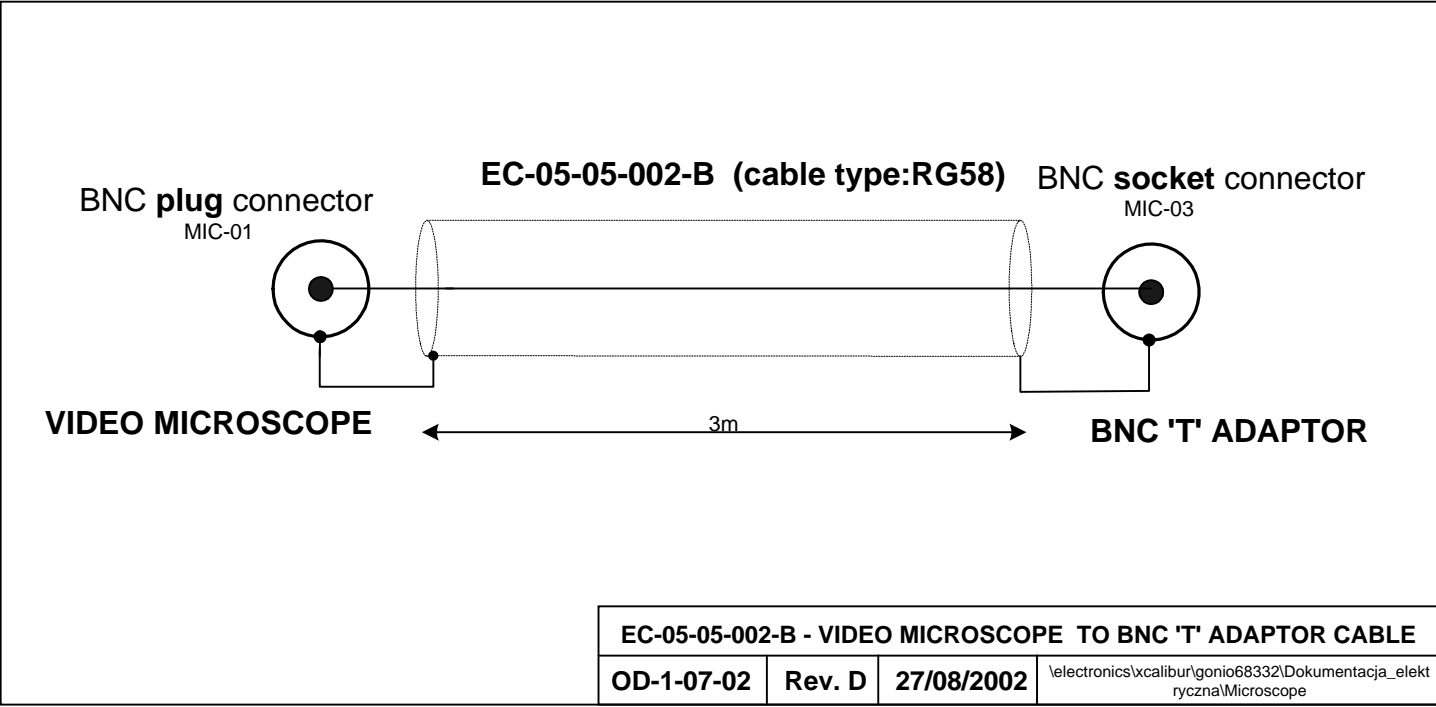


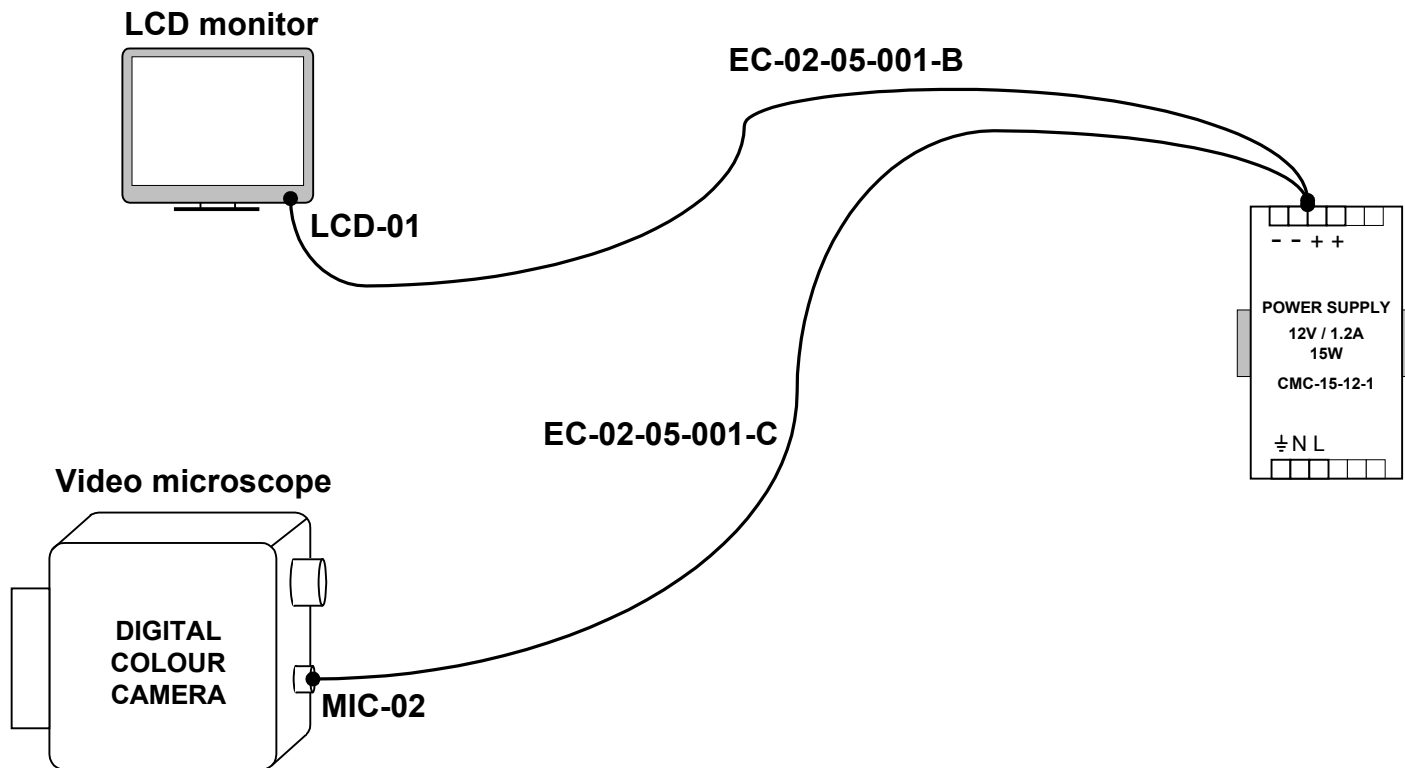
**INT-05
INTERFACE**

		TITLE: Xcalibur system Point Detector connections	
DRG NO. EC-24-02-010-A		FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A
DRAWN BY: R. S.		DATE: Nov. 2002	SHEET 2 of 2
APPROVED BY:			


A. No.				
Appr				
Date				

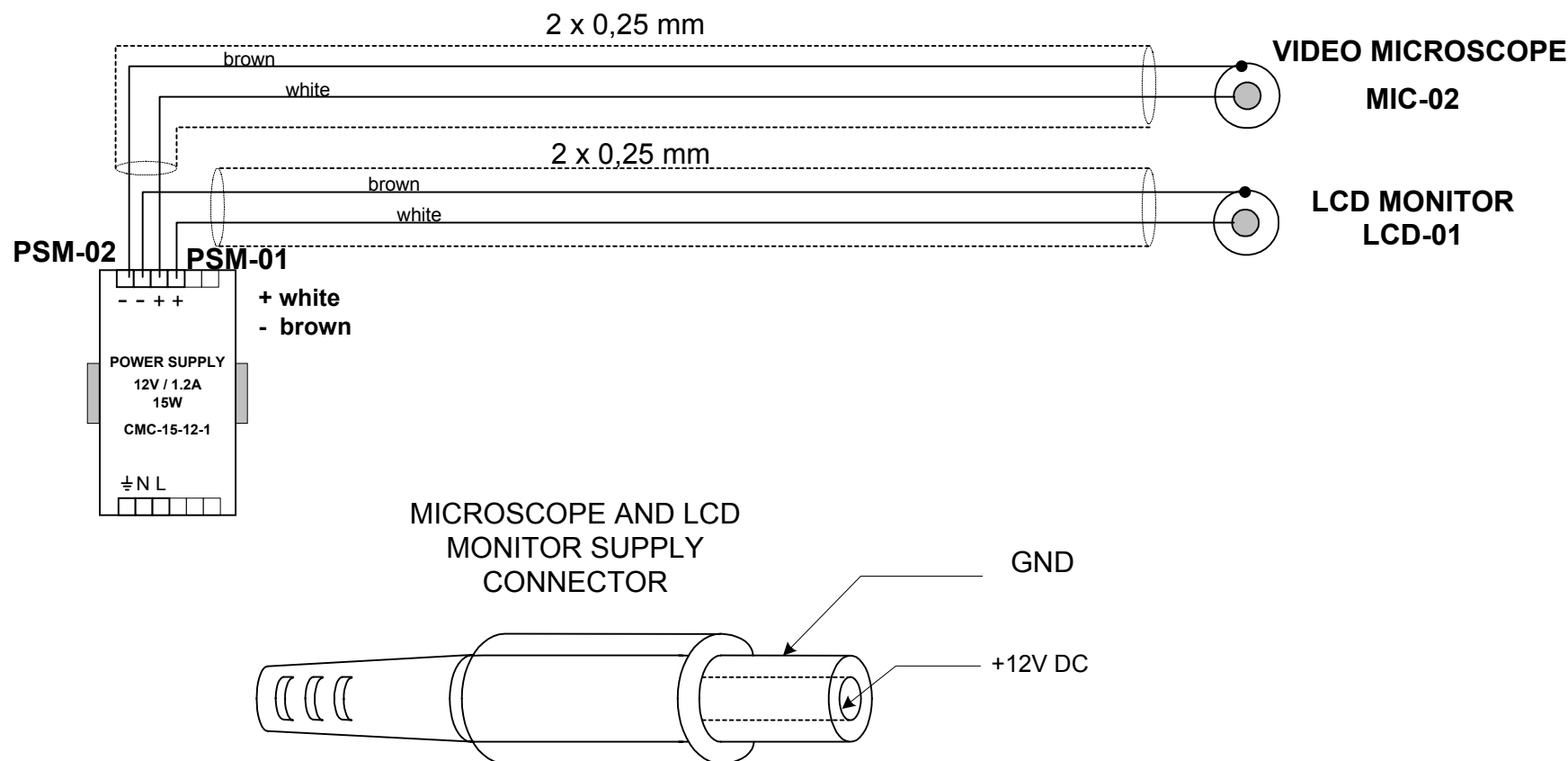






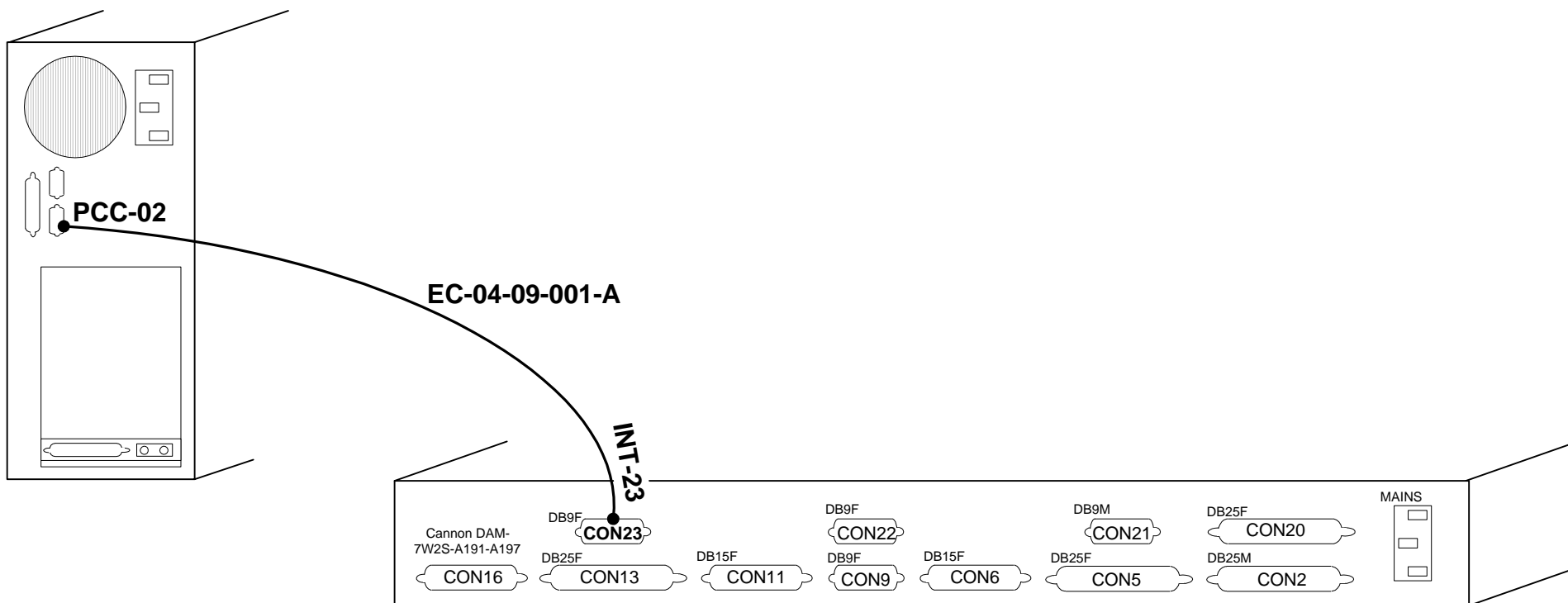
PNS code: EC-02-05-001-B, EC-02-05-001-C		Length: 2x1.2m	Drg no.: EC-02-05-001-B
Description: LCD monitor and video microscope supply			
Cable: 2 x 0.35mm2 shielded	Connector 1: PSM-01, PSM-02	Connector 2: MIC-02	Connector 3: LCD-01
	PNS code:	PNS code: EA-06-00-018-A	PNS code: EA-06-00-018-A
PNS code: EA-05-00-015-A	Type: screw connector	Type: T252	Type: T252
Type: LiYCY2x0.35mm2	Location: power supply	Location: Video microscope	Location: LCD monitor

					 oxford diffraction	<i>TITLE:</i> LCD monior and video microscope power supply cable							
					<i>DRG NO.</i> EC-02-05-001-B								
										<i>DRAWN BY:</i> R. S.	<i>FILE:</i> \\KUMA\workgroups\electronics\gonio68332\cables		<i>REV.</i> A
										<i>APPROVED BY:</i>	<i>DATE:</i> 06/2003		<i>SHEET</i> 1 of 2
<i>A. No.</i>													
<i>Appr</i>													
<i>Date</i>													




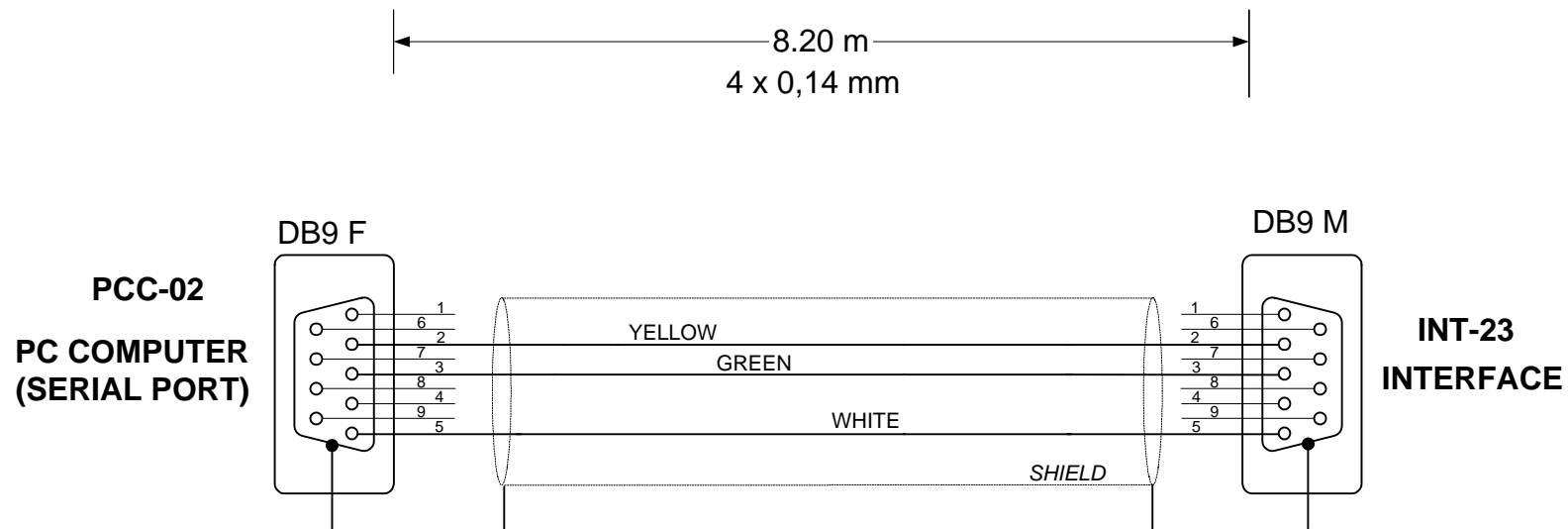
A. No.				
Appr				
Date				


	EC-02-05-001-B			LCD monior and video microscope power supply cable	
	DRAWN BY: R. S.	DATE: 06/2003		FILE: \\KUMA\workgroups\electronics\gonio68332\cables	REV.
APPROVED BY:		SHEET 2 of 2			

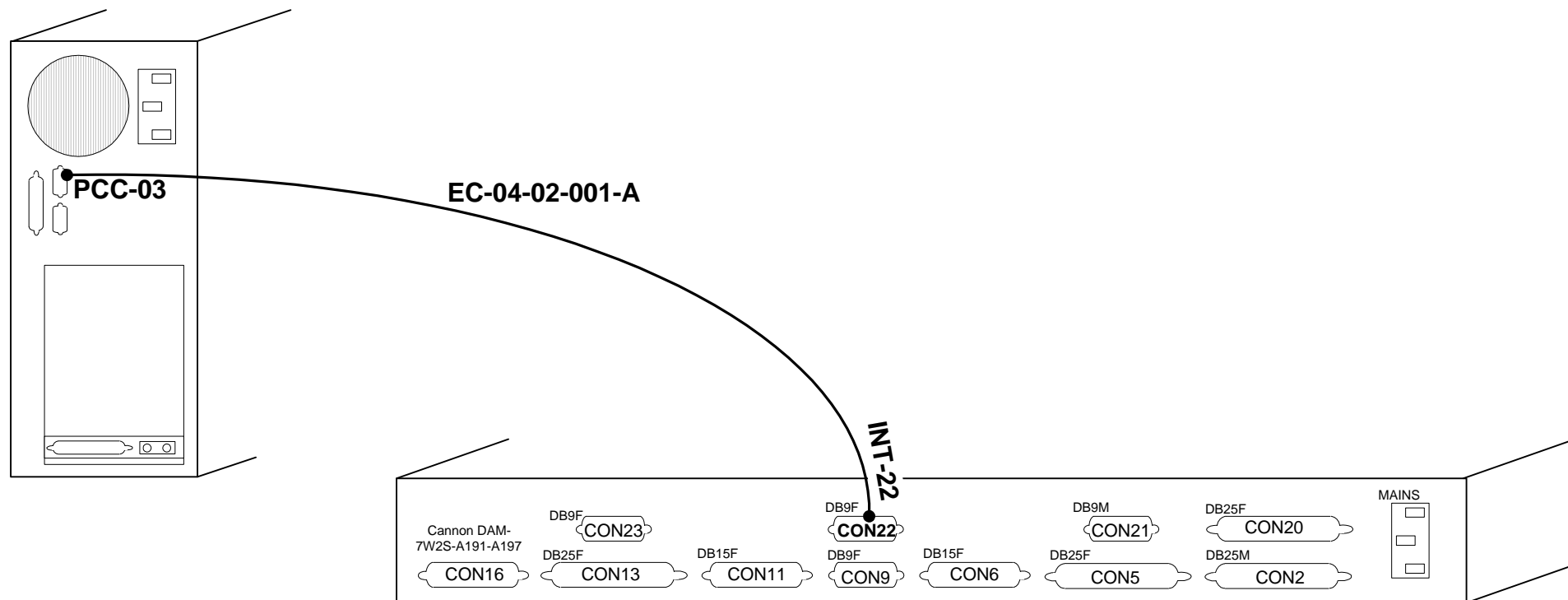


<i>PNS code:</i> EC-04-09-001-A		<i>Length:</i> 8,80m	<i>Drg no.:</i> EC-04-09-001-A
<i>Description:</i> Interface communication			
<i>Cable:</i> 4 x 0.14mm² shielded	<i>Connector 1:</i> INT-23		<i>Connector 2:</i> PCC-02
	<i>PNS code:</i> EA-06-00-001-A	<i>PNS code:</i> EA-06-00-002-A	
<i>PNS code:</i> EA-05-00-002-A	<i>Type:</i> DB9 male		<i>Type:</i> DB9 female
<i>Type:</i> LiYCY4 x 0.14 w ekranie	<i>Location:</i> Interface – rear panel		<i>Location:</i> PC (serial port)


					 EC-04-09-001-A	<i>TITLE:</i> Xcalibur system Interface RS232 cable	
<i>A. No.</i>							
<i>Appr</i>					<i>DRAWN BY:</i> R. S.	<i>FILE:</i> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	
<i>Date</i>					<i>APPROVED BY:</i>		
					<i>DATE:</i> 04/07/2001	<i>SHEET</i> 1 of 2	<i>REV.</i> A

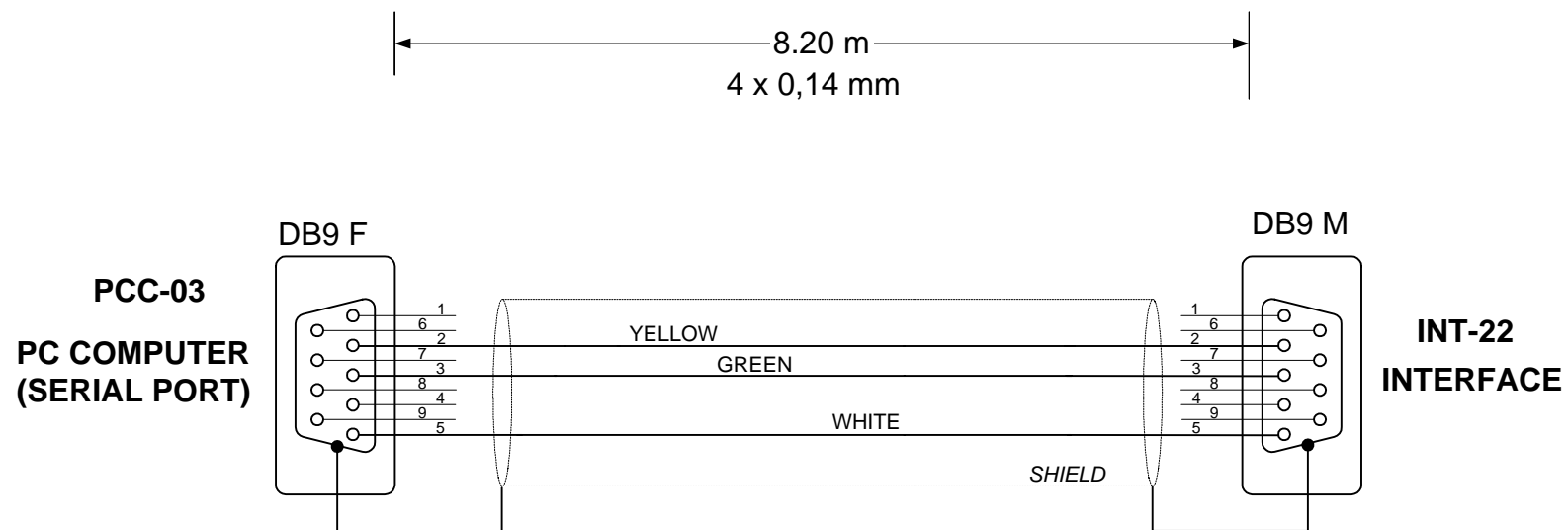



						<div>TITLE:</div> <div>Xcalibur system</div> <div>Interface RS232 cable</div>		
					DRG NO.			
A. No.					EC-04-09-001-A	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
Appr					DRAWN BY: R. S.			
Date					APPROVED BY:	DATE: 04/07/2001	SHEET 2 of 2	

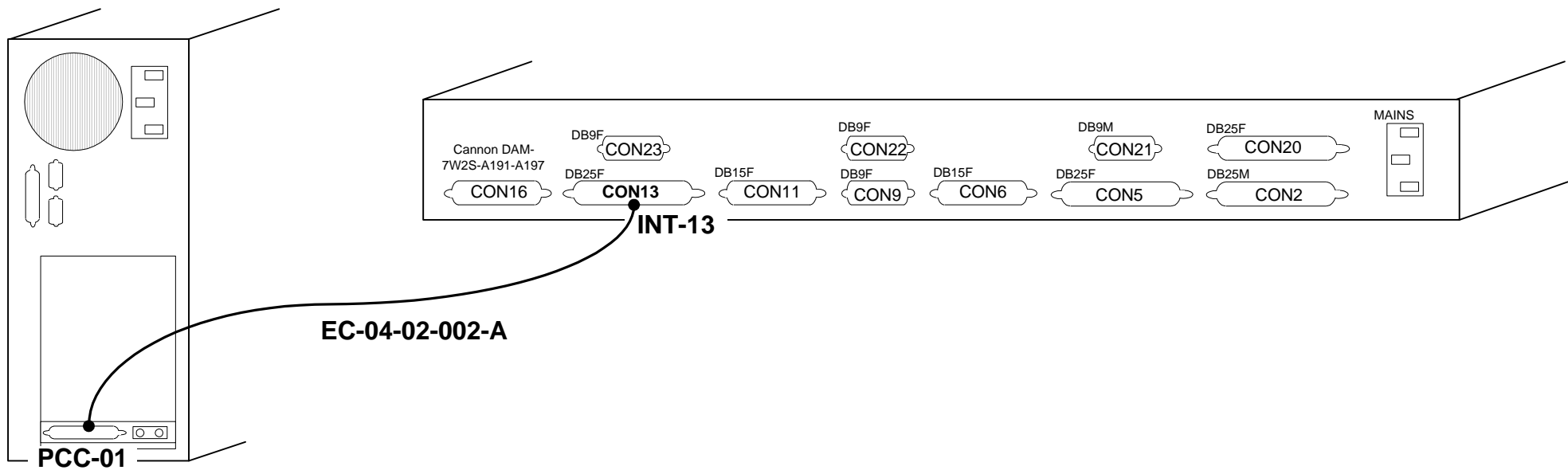


PNS code: EC-04-02-001-A		Length: 8.20m	Drg no.: EC-04-02-001-A
Description: CCD power supply communication			
Cable: 4 x 0.14mm² shielded	Connector 1: INT-22		Connector 2: PCC-03
	PNS code: EA-06-00-001-A		PNS code: EA-06-00-002-A
PNS code: EA-05-00-002-A	Type: DB9 male		Type: DB9 female
Type: LiYCY4 x 0.14 shielded	Location: Interface – rear panel		Location: PC (serial port)


					 DRG NO. EC-04-02-001-A	TITLE: Xcalibur system CCD power supply to PC (RS232)		
A. No.	B							
Appr					DRAWN BY: R. S.	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. B
Date	Dec. 2002				APPROVED BY:	DATE: 06/07/2001	SHEET 1 of 2	

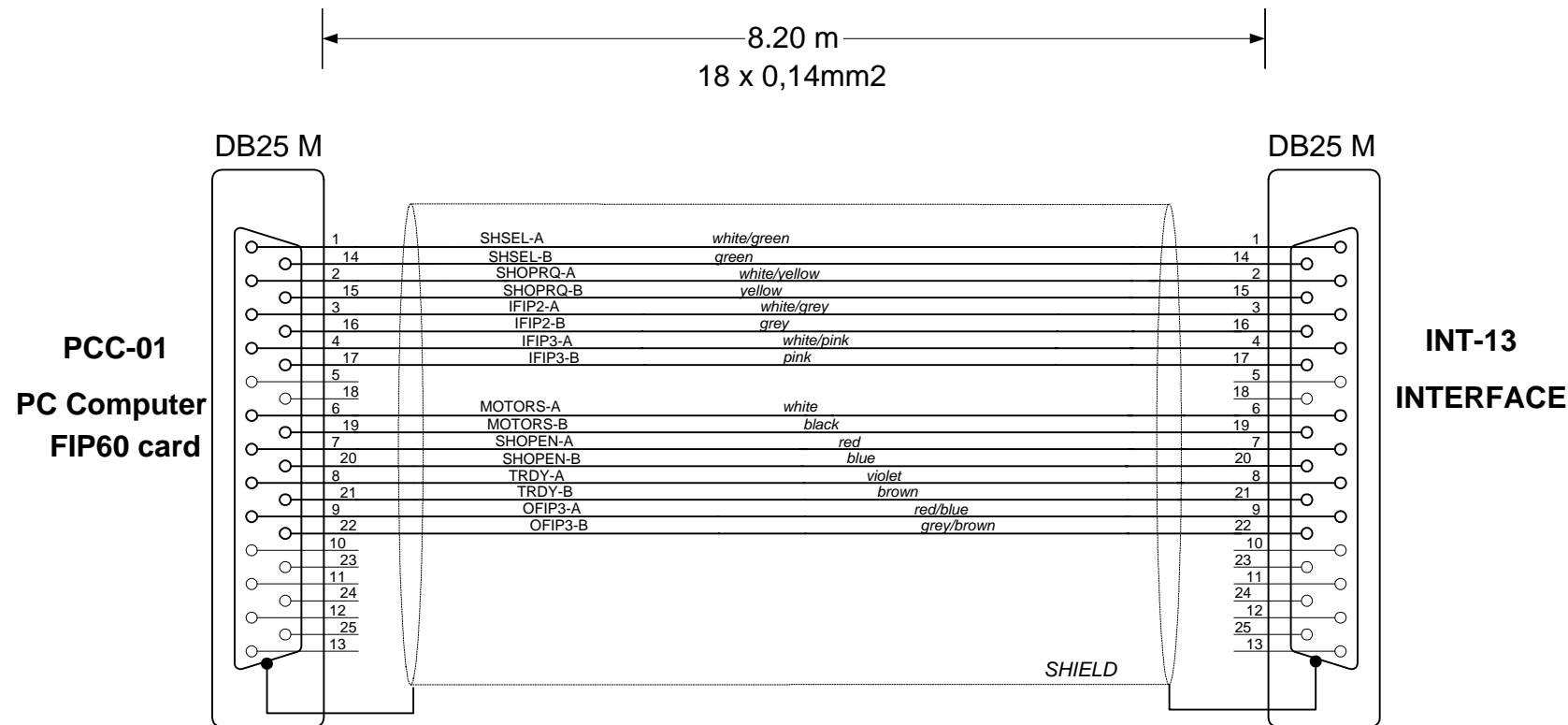



<div>  oxford diffraction </div>					TITLE: Xcalibur system CCD power supply to PC (RS232)		
EC-04-02-001-A					FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. B
DRAWN BY: R. S.					DATE: 04/07/2001		SHEET 2 of 2
APPROVED BY:							
A. No.	B						
Appr							
Date	Dec. 2002						

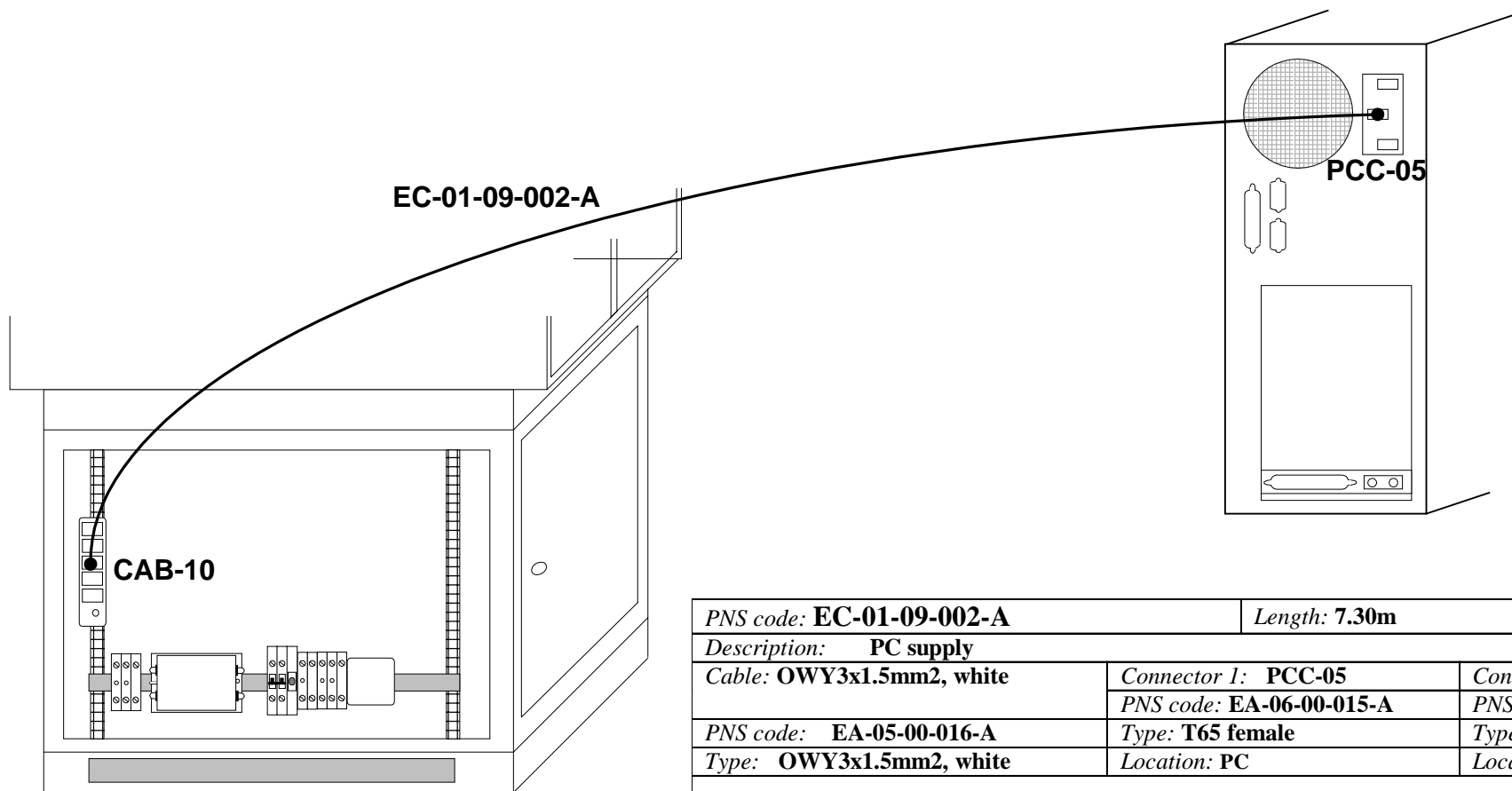


<i>PNS code:</i> EC-04-02-002-A		<i>Length:</i> 8.20m	<i>Drg no.:</i> EC-04-02-002-A
<i>Description:</i> FIP60 communication			
<i>Cable:</i> 18 x 0.14mm² shielded	<i>Connector 1:</i> INT-13		<i>Connector 2:</i> PCC-01
	<i>PNS code:</i> EA-06-00-005-A		<i>PNS code:</i> EA-06-00-005-A
<i>PNS code:</i> EA-05-00-013-A	<i>Type:</i> DB25 male		<i>Type:</i> DB25 male
<i>Type:</i> LiYCY18 x 0.14 shielded	<i>Location:</i> Interface – rear panel		<i>Location:</i> PC (FIP60)


					 DRG NO. EC-04-02-002-A	<i>TITLE:</i> Xcalibur system FIP60 to Interface cable		
<i>A. No.</i>	B							
<i>Appr</i>					<i>DRAWN BY:</i> R. S.	<i>FILE:</i> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		<i>REV.</i> B
<i>Date</i>	Dec. 2002				<i>APPROVED BY:</i>			<i>DATE:</i> 06/07/2001
							<i>SHEET</i> 1 of 2	




					<div> oxford diffraction</div>	<div>TITLE:<div>Xcalibur system</div><div>FIP60 to Interface cable</div></div>		
					DRG NO. <div>EC-04-02-002-A</div>	<div>FILE:<div>\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div></div>		REV. <div>B</div>
A. No.	B				DRAWN BY: R. S.			
Appr					APPROVED BY:	DATE: 04/07/2001		SHEET 2 of 2
Date	Dec. 2002							

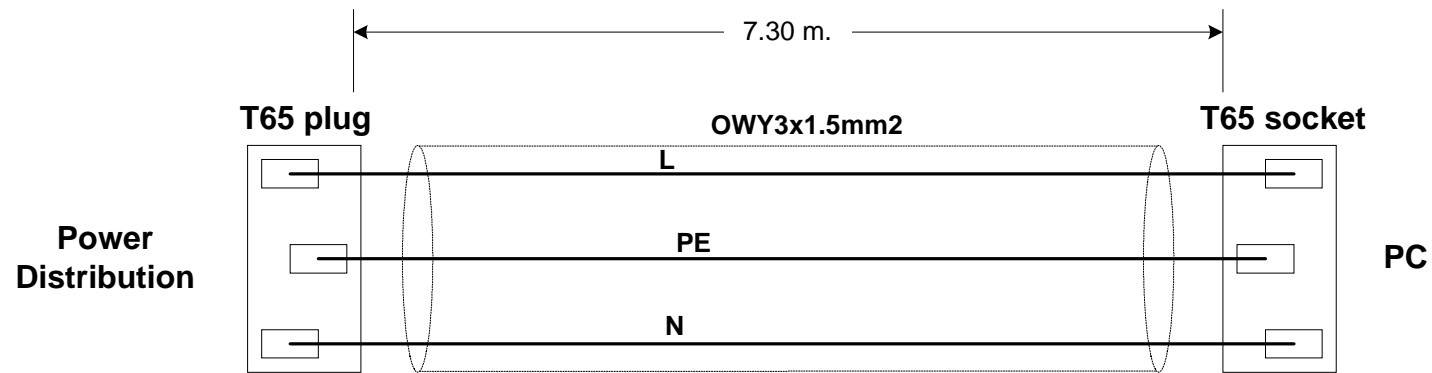



<i>PNS code:</i> EC-01-09-002-A		<i>Length:</i> 7.30m	<i>Drg no.:</i> EC-01-09-002-A
<i>Description:</i> PC supply			
<i>Cable:</i> OWY3x1.5mm2, white	<i>Connector 1:</i> PCC-05	<i>Connector 2:</i> CAB-10	
	<i>PNS code:</i> EA-06-00-015-A	<i>PNS code:</i> EA-06-00-014-A	
<i>PNS code:</i> EA-05-00-016-A	<i>Type:</i> T65 female	<i>Type:</i> T65 male	
<i>Type:</i> OWY3x1.5mm2, white	<i>Location:</i> PC	<i>Location:</i> IEC plug inlet	

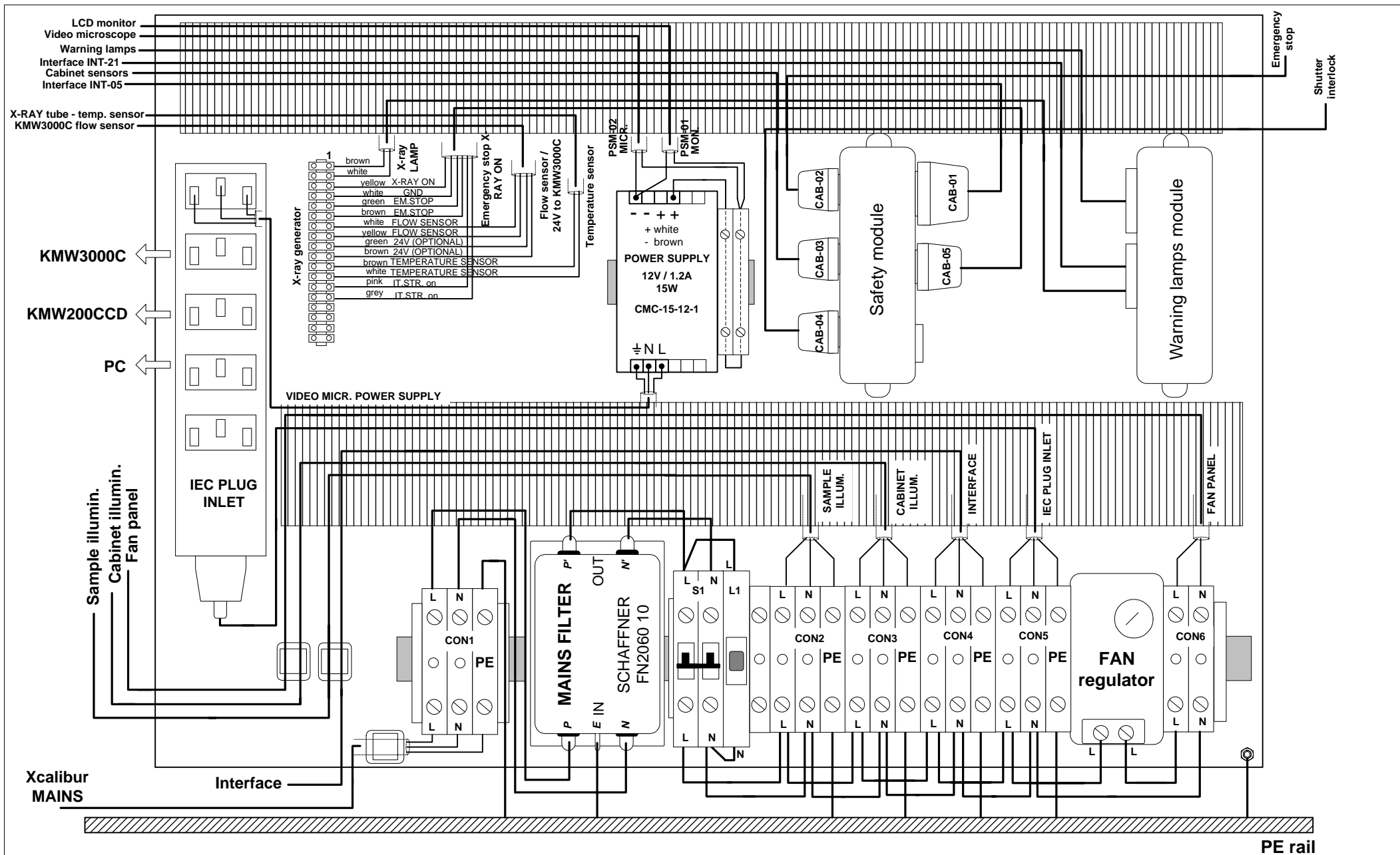
							PC	
					230VAC Supply cable			
					<i>FILE:</i> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		<i>REV.</i> B	
					<i>DATE:</i> 03/01/2002		<i>SHEET</i> 1 of 2	


<i>A. No.</i>	B			
<i>Appr</i>				
<i>Date</i>	Dec. 2002			

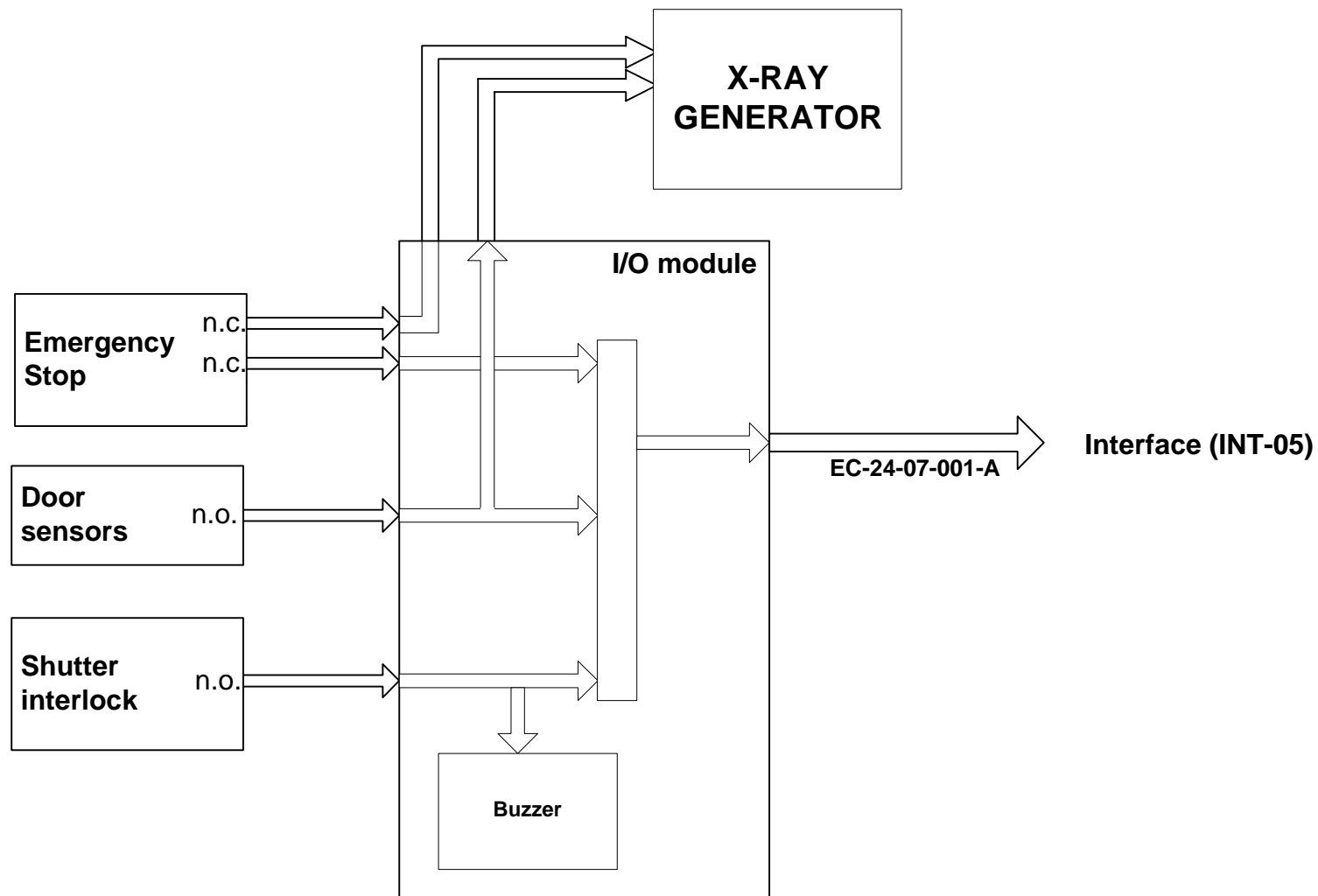
	
<i>DRG NO.</i>	
EC-01-09-002-A	
<i>DRAWN BY:</i> R. S.	
<i>APPROVED BY:</i>	




					<div><div></div><div>oxford diffraction</div></div>	<div>TITLE:</div> <div>PC</div>		
					<div>DRG NO.</div> <div>EC-01-09-002-A</div>	<div>230VAC Supply cable</div>		
A. No.	B				<div>DRAWN BY:</div> <div>R. S.</div>	<div>FILE:</div> <div>\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div>		<div>REV.</div> <div>B</div>
Appr					<div>APPROVED BY:</div>	<div>DATE:</div> <div>03/01/2001</div>		<div>SHEET</div> <div>2 of 2</div>
Date	Dec. 2002							

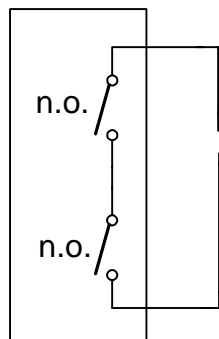


A. No.	B	D				TITLE: Xcalibur 3 system Electrical panel		
Appr					DRG NO. EC-24-07-000-B	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. D	
Date	06/2003	09/2003			DRAWN BY: R. S.	DATE: 04.2003	SHEET 1 of 1	
					APPROVED BY:			

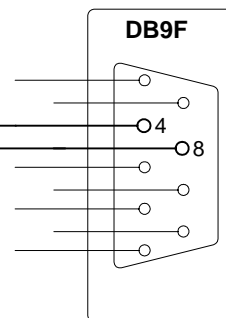


					<div> oxford diffraction</div>	<div>TITLE: Xcalibur system Safety system - block diagram</div>		
					DRG NO. OD-1-09-11			
A. No.						FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
Appr					DRAWN BY: R. S.			
Date					APPROVED BY:	DATE: 01.2002	SHEET	1 of 1

Door sensors



OWY2x1



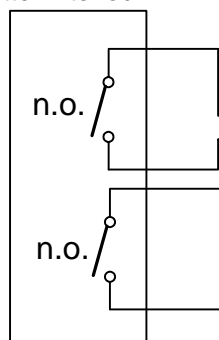
I/O module

DB9M

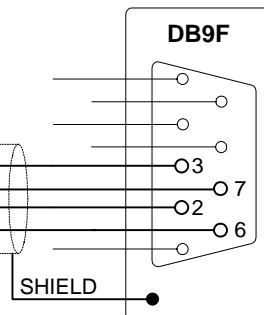
Sensors connector

CAB-03

Shutter interlock



LiYCY 4x0.14

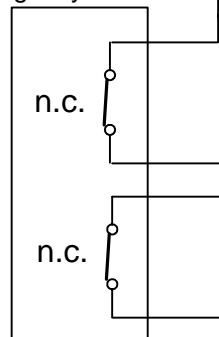


DB9M

Shutter interlock connector

CAB-04

Emergency button

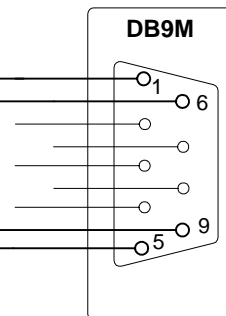


OWY2x1

1,1m

OWY2x1

1,1m



DB9F

Emergency button connector

CAB-02



DRG NO.

OD-1-09-11

DRAWN BY: R. S.

APPROVED BY:

TITLE:

**Xcalibur system
Safety connections**

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\

REV. C

DATE: 01.2002

SHEET 1 of 1

A. No.

B

C

Appr

Date

06/2002

09/2003

I/O module

CAB-01

D25F

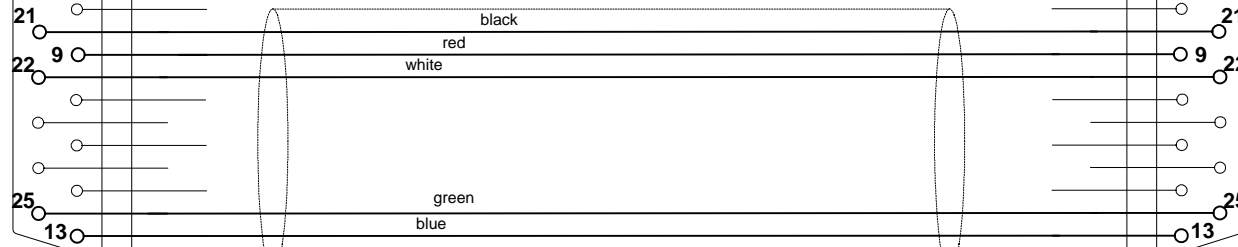
DB25M

DB25M

EC-24-07-001-A

LiYCY10x0.14

INT-05
INTERFACE



DRG NO.

EC-24-07-001-A

DRAWN BY: R. S.

APPROVED BY:

TITLE:

Xcalibur system
Safety connections

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

REV.
A

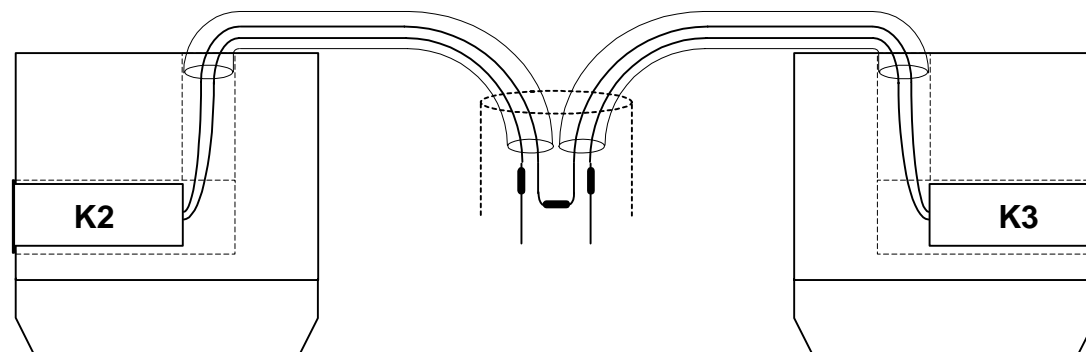
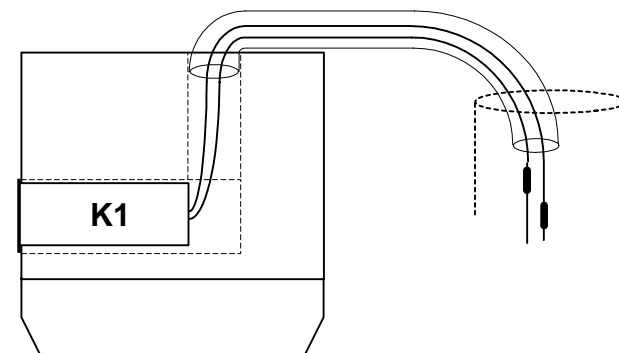
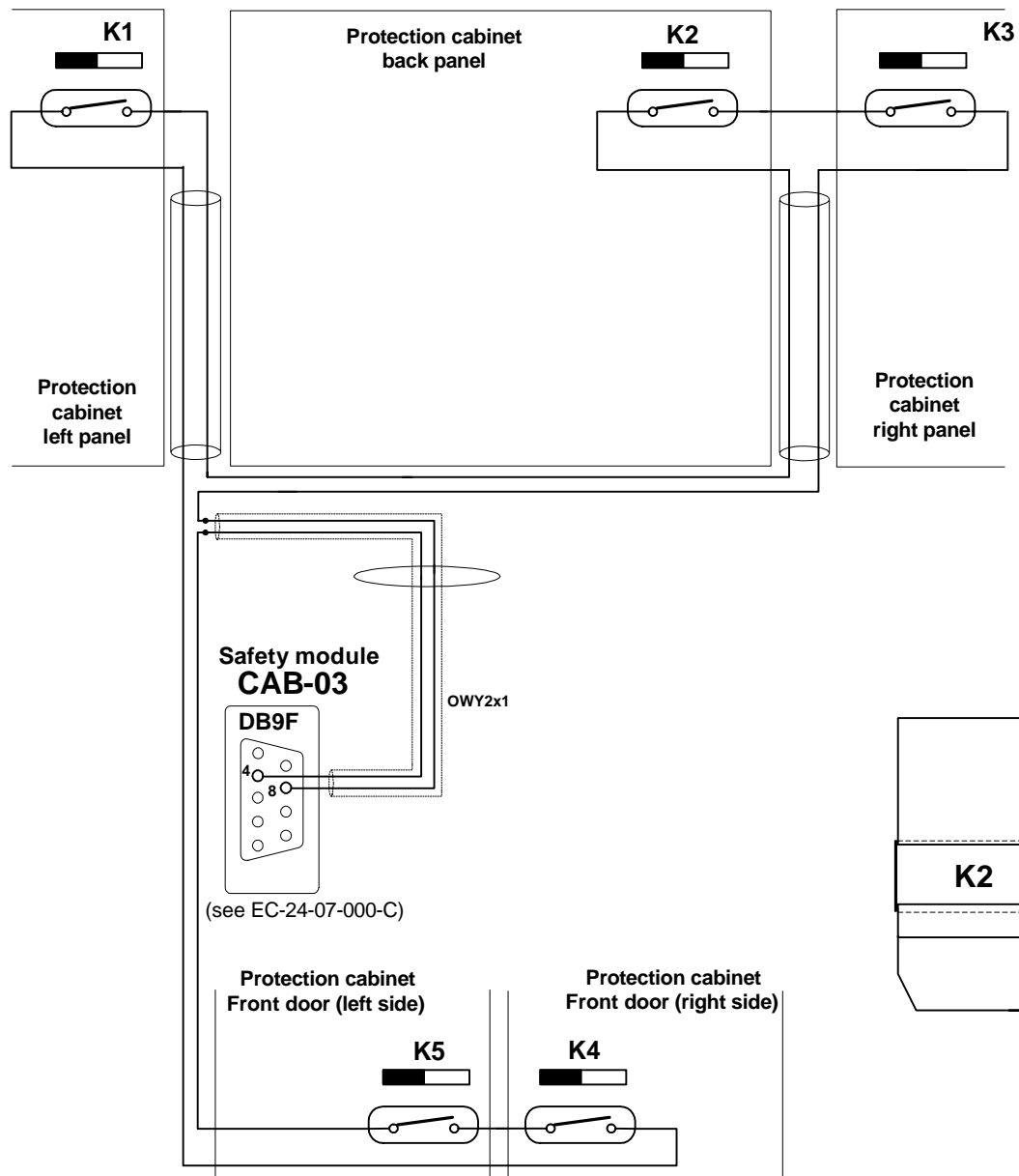
DATE: 01.2002


SHEET 1 of 1

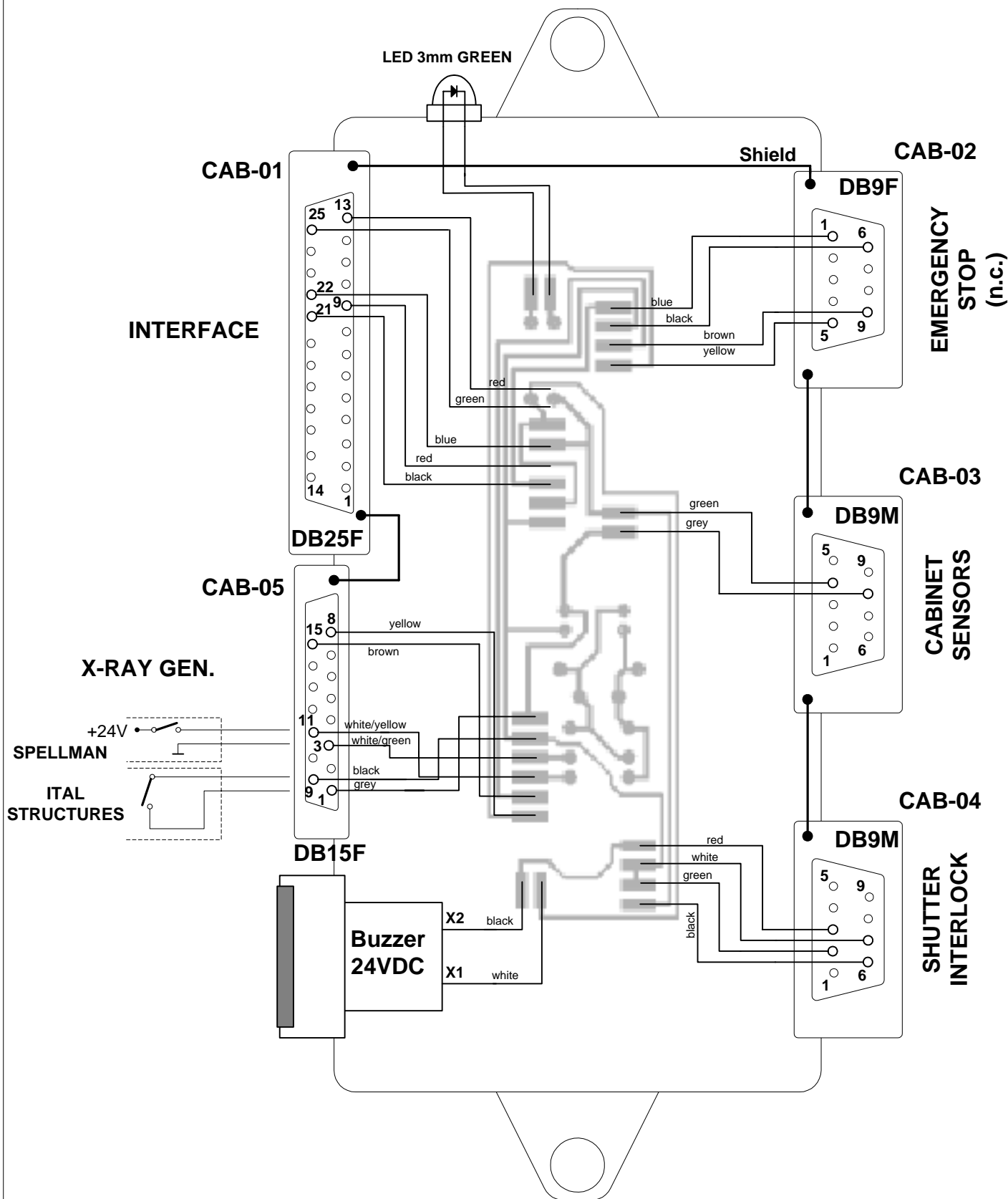
A. No.

Appr

Date



A. No.	B				 DRG NO. EC-24-11-001-B DRAWN BY: R. S. APPROVED BY:	TITLE: Xcalibur system	
Appr						Protection cabinet sensors	
Date	09/2003					FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A
						DATE: 09.2003	SHEET 1 of 1



DRG NO.

OD-1-09-12

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:

Xcalibur system

Safety module - connections

FILE: \\KUMA\workgroups\electronics\gonio68332\cabinet

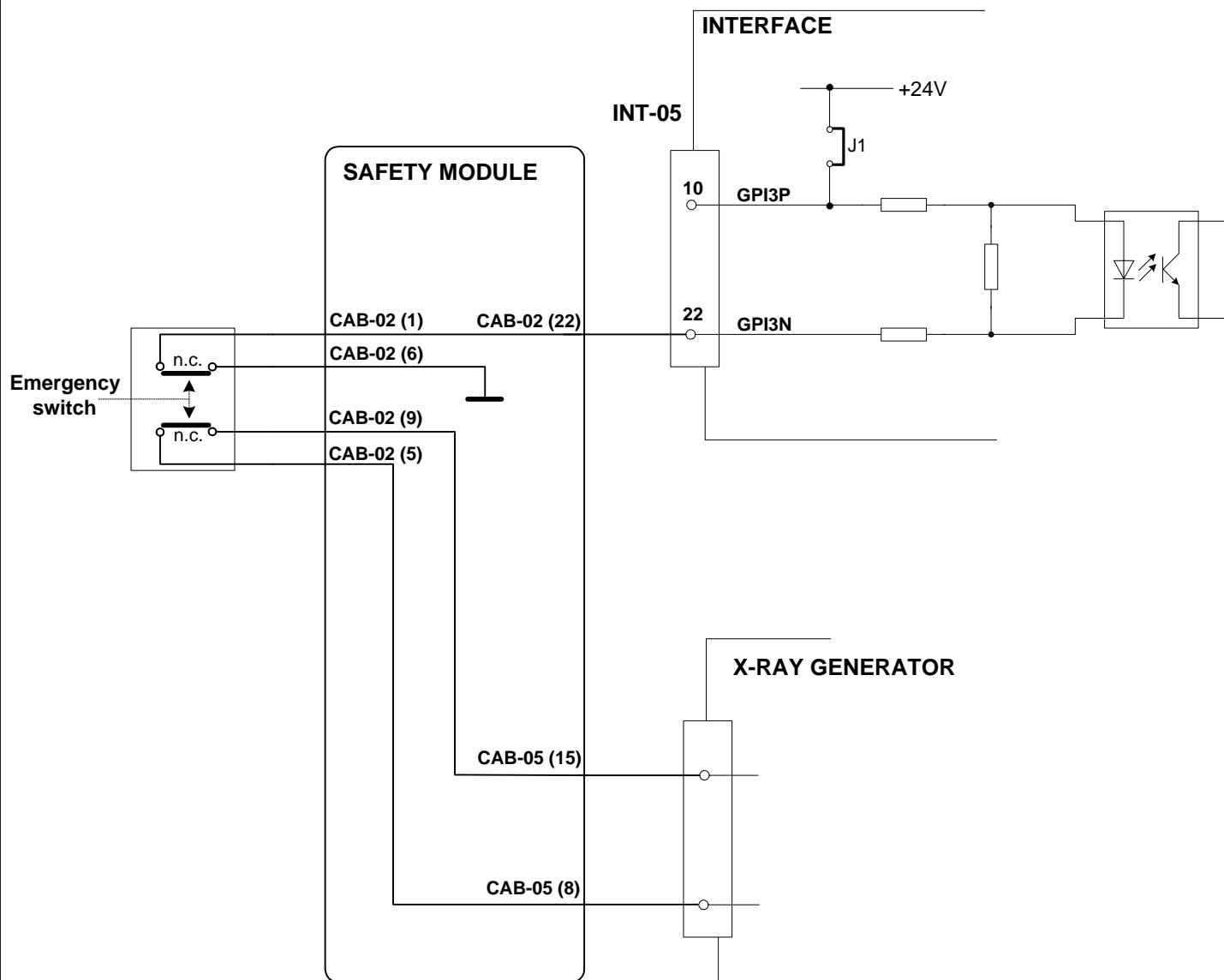
REV.

C

DATE: 24/01/2002

SHEET 1 of 3

A. No.	A	B
Appr		
Date	05/2002	06/2002



DRG NO.

OD-1-09-12

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:

Xcalibur system

Safety module - connections

FILE: \\KUMA\workgroups\electronics\gonio68332\cabinet

REV.

B

DATE: 24/01/2002

SHEET **2 of 3**

A. No.

A

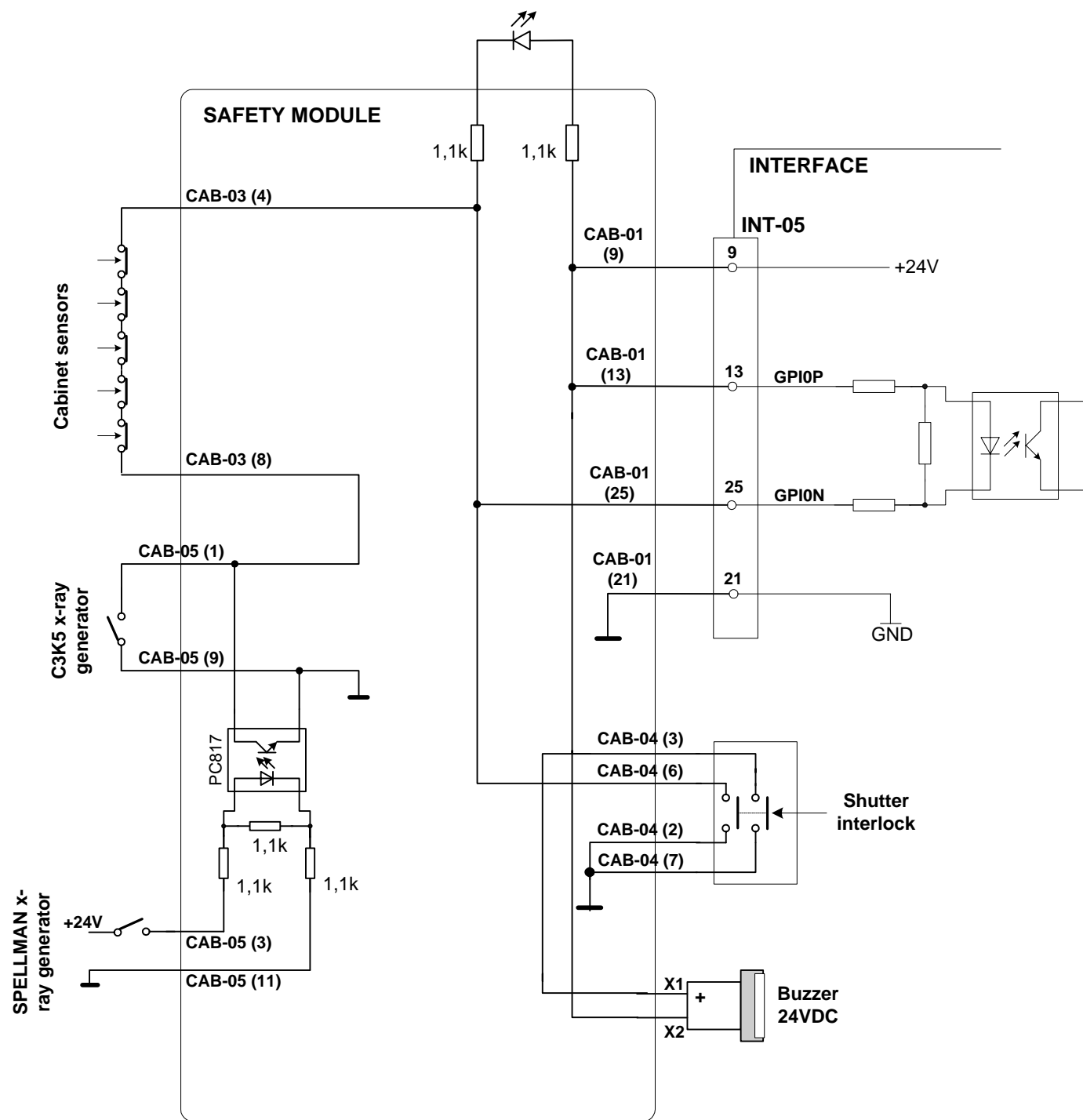
B

Appr

Date

05/2002

06/2002



DRG NO.

OD-1-09-12

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:

Xcalibur system

Safety module - connections

FILE: \\KUMA\workgroups\electronics\gonio68332\cabinet

REV.

C

DATE: 24/01/2002

SHEET **3 of 3**

A. No.

A

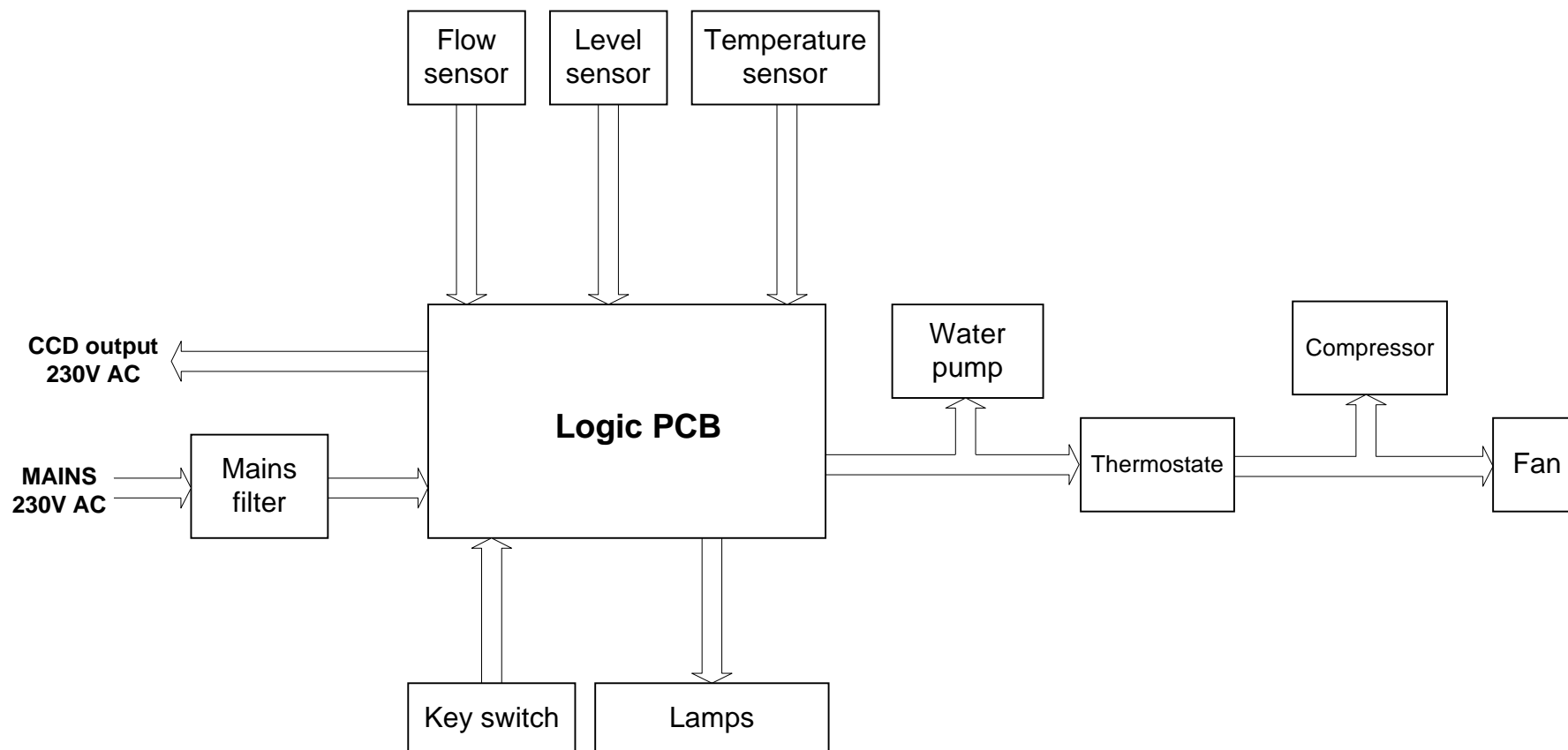
B


Appr

Date

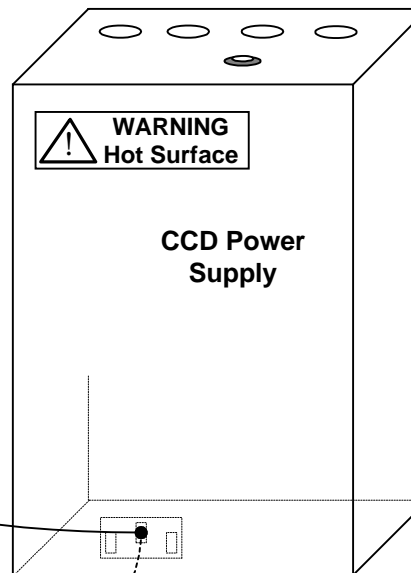
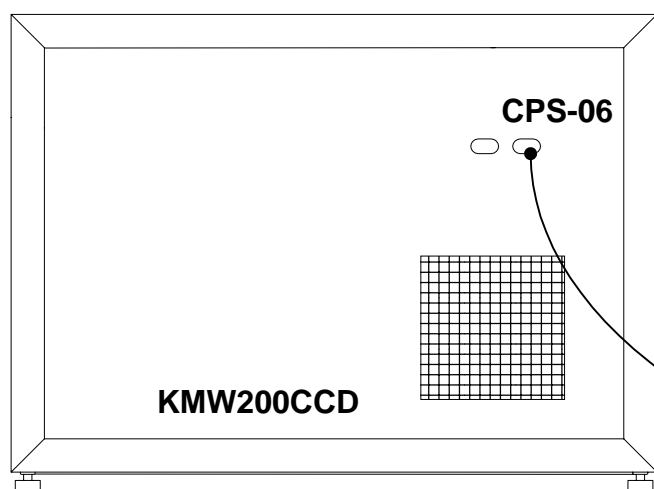
05/2002

06/2002

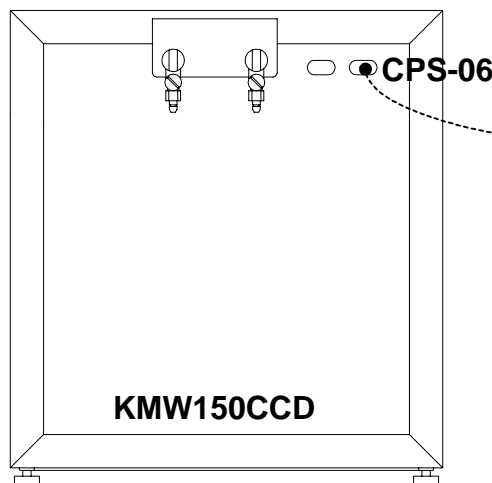


 oxford diffraction DRG NO. EW-02-00-001-A DRAWN BY: R. S. APPROVED BY:	TITLE: KMW150CCD / KMW200CCD Electrical block scheme		
	FILE: \\KUMA\workgroups\electronics\KMW150CCD\		REV. A
	DATE: 10.2002		SHEET 1 of 1


A. No.				
Appr				
Date				



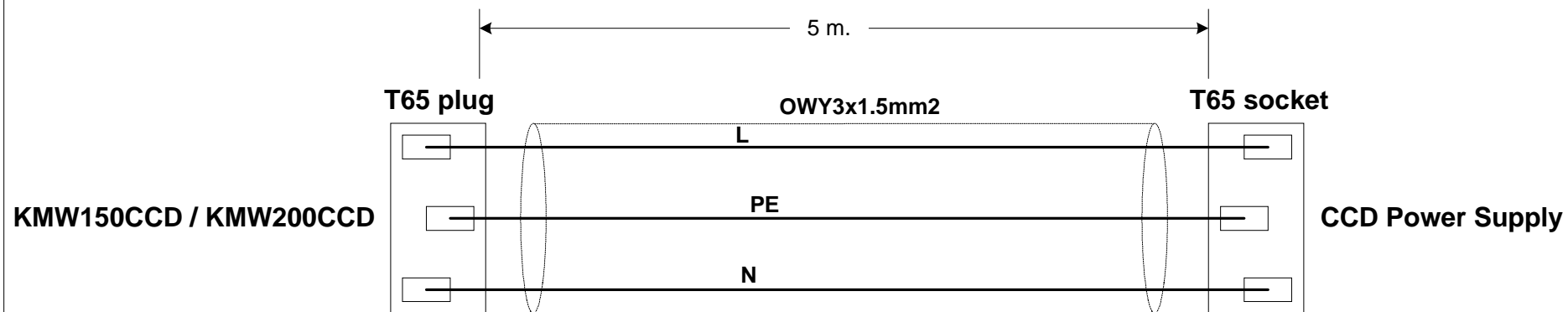
EC-01-02-001-A




KPNS code: EC-01-02-001-A		Length: 5.0m	Drq no.: EC-01-02-001-A
Description: CCD supply			
Cable: 3 x 1.5mm², white		Connector 1: CPS-06	Connector 2: CPS-05
		PNS code: EA-06-00-014-A	PNS code: EA-06-00-015-A
PNS code: EA-05-00-016-A		Type: T65 male	Type: T65 female
Type: OWY3x1.5mm²		Location: KMW150CCD	Location: CCD p. s.

 DRG NO. EC-01-02-001-A	TITLE: CCD Power Supply 230VAC Supply cable		
	FILE: \\KUMA\workgroups\electronics\gonio68332\cables		REV. A
	DATE: 03/01/2002		SHEET 1 of 2
	APPROVED BY:		

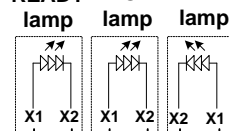
A. No.				
Appr				
Date				



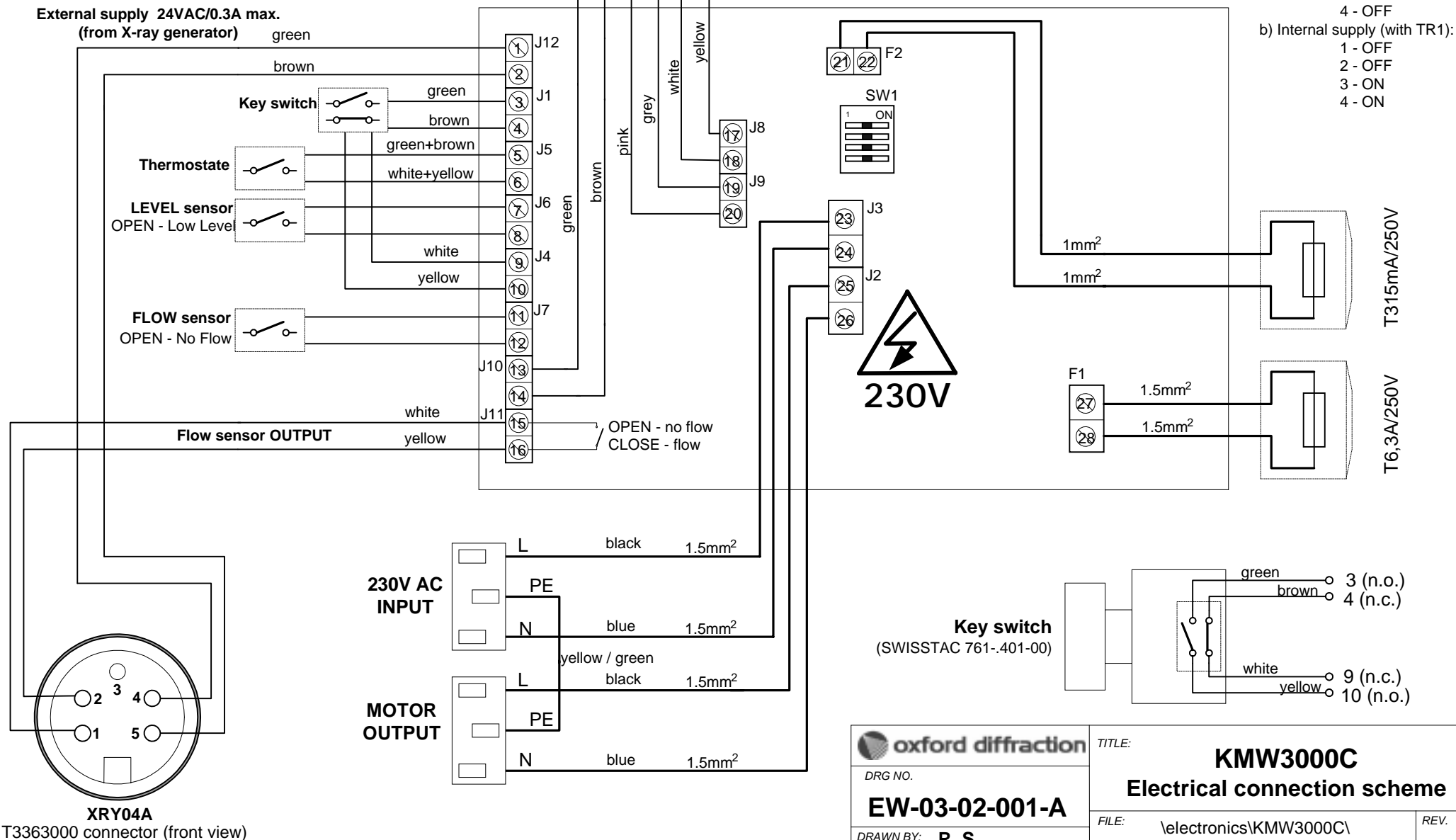
							TITLE: CCD Power Supply	
					DRG NO. EC-01-02-001-A		230VAC Supply cable	
A. No.					DRAWN BY: R. S.		FILE: \\KUMA\workgroups\electronics\gonio68332\cables	REV. A
Date					APPROVED BY:		DATE: 03/01/2001	SHEET 2 of 2

READY Lamp - MultiLED 24VDC/12,5mA GREEN
 FLOW Lamp - MultiLED 24VDC/12,5mA YELLOW
 LEVEL Lamp - MultiLED 24VDC/12,5mA RED

READY FLOW LEVEL



External supply 24VAC/0.3A max.
 (from X-ray generator)



- SW1 SETTINGS:
- a) External supply 24VAC:
 - 1 - ON
 - 2 - ON
 - 3 - OFF
 - 4 - OFF
 - b) Internal supply (with TR1):
 - 1 - OFF
 - 2 - OFF
 - 3 - ON
 - 4 - ON



Key switch
 (SWISSTAC 761-.401-00)

oxford diffraction

DRG NO.
EW-03-02-001-A

DRAWN BY: **R. S.**

APPROVED BY:

TITLE:
KMW3000C
Electrical connection scheme

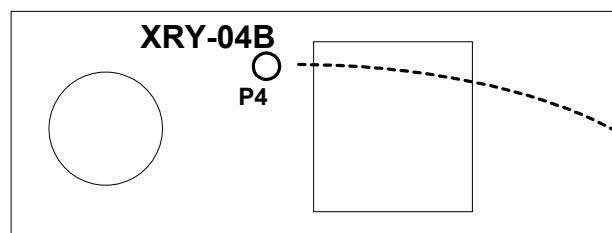
FILE: \electronics\KMW3000C\

DATE: 7/02/2002

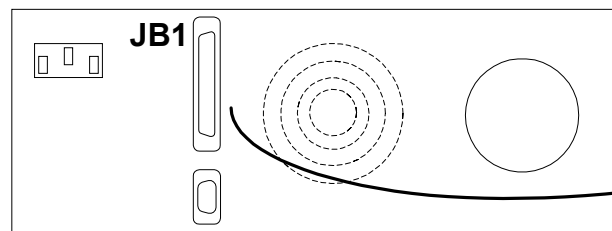
REV. A

SHEET 1 of 1

ITAL STRUCTURES
C3K5 X-RAY GENERATOR



SPELLMAN
DF/FF X-RAY GENERATOR



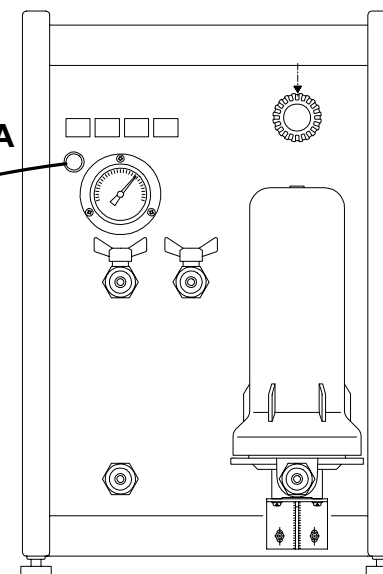
EC-24-06-001-D

EC-24-06-001-A

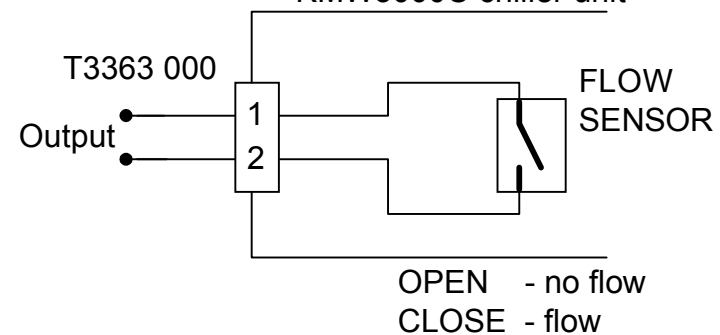
Screw connector
(electrical panel)

EC-24-06-001-C

KMW3000C front view

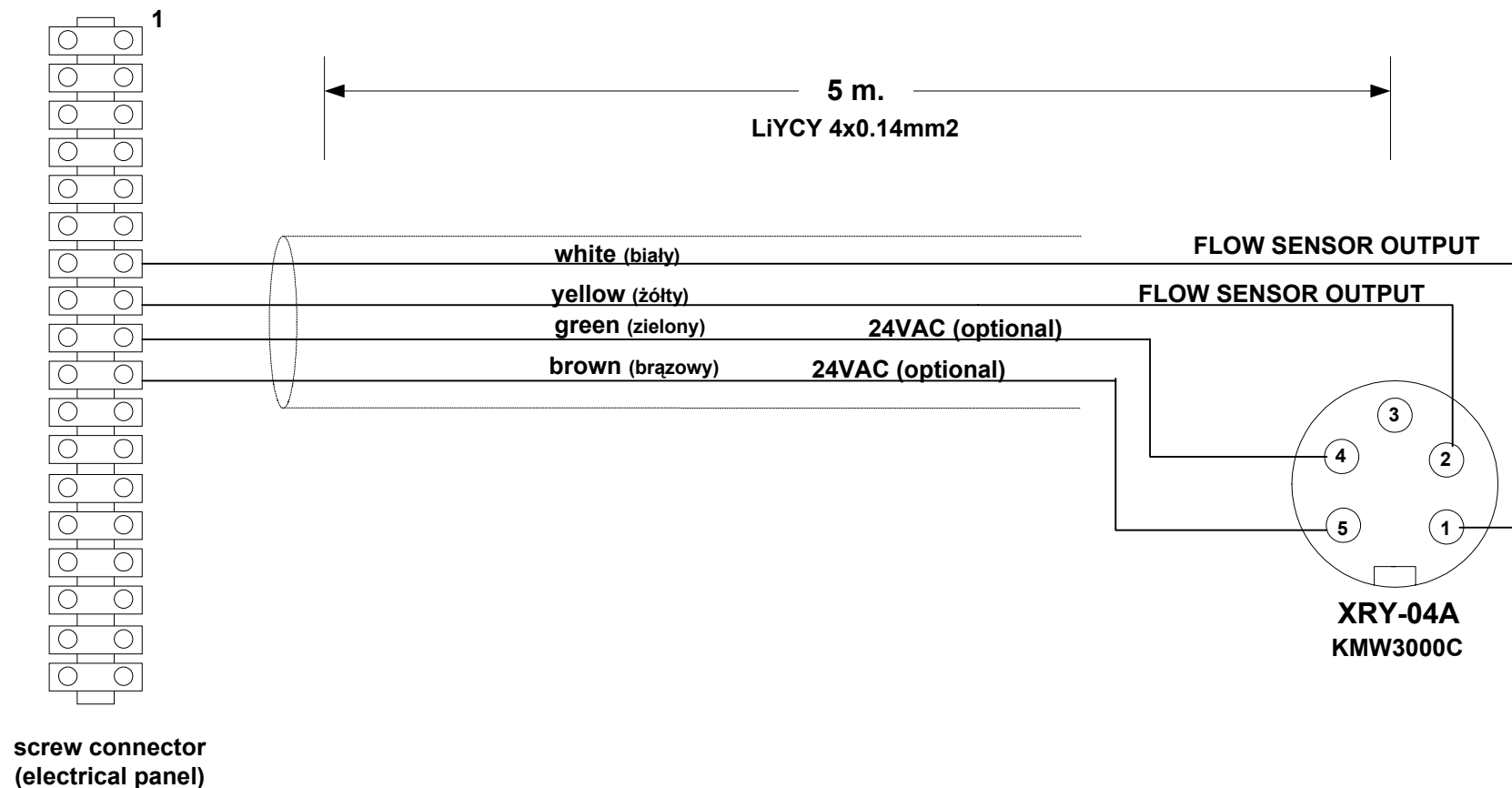


KMW3000C chiller unit



		TITLE: KMW3000C	
DRG NO. EW-24-06-000-B		Flow sensor cable	
DRAWN BY: R. S.		FILE: \\KUMA\workgroups\electronics\KMW3000C	REV. A
APPROVED BY:		DATE: 03/01/2002	SHEET 1 of 2

A. No.				
Appr				
Date				



XRY-04A	Description
1, 2	Flow sensor output
3	no connected
4, 5	External supply 24VAC/0.3A max. from x-ray generator

A. No.	A	B		
Appr				
Date	02/09/2002	04/2003		

 DRG NO. EC-24-06-001-A	TITLE: KMW3000C Flow sensor cable	
	FILE: \\KUMA\workgroups\electronics\ KMW3000C	REV. B
DRAWN BY: R. S. APPROVED BY:	DATE: 03/01/2001	SHEET 2 of 2